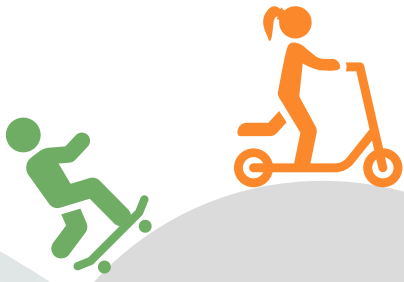


Appendix A





MISSION & EXCELSIOR BIKING & ROLLING

COMMUNITY ACTION PLAN



PODER Introduction

Founded in 1991, People Organizing to Demand Environmental and Economic Rights (PODER), is a grassroots environmental and economic justice organization based in San Francisco, CA. PODER organizes with Latinx immigrant families and youth in the Mission, Excelsior and other southeast San Francisco neighborhoods to create people-powered solutions that are locally based, community governed and environmentally just. We nurture everyday people's leadership, cultivate cultural regeneration, and strengthen community power.

The seeds of Bicis Del Pueblo were planted in 2011 where PODER Youth saw first-hand the effects of the extractive fossil fuel economy on Native American communities in North Dakota. Returning with a deeper awareness and commitment towards environmental justice they created a series of bicycle tours to highlight environmental health hazards in their own neighborhoods. This powerful experience shed light on another set of challenges; access to bikes and the many barriers to riding confidently in the city.

Bicis del Pueblo is committed to bolstering our agency to freely navigate our city in sustainable ways. Bicis cultivates bike riding practices as a healthy way to move in our city that curbs carbon emissions and deepens our relationships to place and each other. Our work fosters resiliency through health, community, and action for environmental justice. In this way Bicis Del Pueblo is an expression of love for our planet, our families, the neighborhoods where we live, for those who came before us, and those who will inherit what we leave behind.

The dispossession of land, an extractive and exploitative global economy, and repressive enforcement and immigration policies have shaped where and how working class immigrant communities move. Working class communities dependent on reliable and affordable transportation must be able to define our mobility and access to San Francisco in order to authentically participate in the full breadth of our city's ecosystem.



People Powered Community Planning

In acknowledging the many previous transportation projects in San Francisco that have contributed to inequities, caused harm, trauma, and displacement for communities of color, the SFMTA broaches a wound. It is imperative then to embark on the long and arduous work of rebuilding trust, credibility, and transforming planning and decision making processes that are too often top down, narrow in scope, and market oriented. It is with this goal that PODER has facilitated the development of community action plans for a more holistic approach to biking and rolling in the Mission and Excelsior.

Implementation of SFMTAs Biking and Rolling plan must build on established community planning initiatives in adopting an intersectional approach that recognizes the relationship between active transportation, housing, employment, health, public transit and enforcement. Our communities both drive and use active transit. Infrastructure should help eliminate conflict among us and deliver “interventions to prioritize stability for vulnerable residents in service of enrichment of active communities.” Without significant improvements in local employment opportunities, job training, childcare, language access, and affordable housing for example, active transportation will remain a non-viable mode choice for our communities.

Why A Community Action Plan?

Centering the leadership of those most often impacted first and worst is essential to developing a planning process that genuinely addresses past harms and leverages local leadership to move toward equitable systems and outcomes. The displacement, cultural erasure and gentrification that has been characteristic of transit oriented development in our communities has been met with resilience based participatory community action planning initiatives that have resulted in concrete victories.

Beyond reacting to the negative impacts of harmful development, working in coalition, the Mission and Excelsior communities have led proactive initiatives to secure public land for public good. In recent years, two underutilized parking lots at 17th Street and Folsom Street have been transformed into a In Chan Kaajal Park and a mixed use affordable housing development, Casa Adelante. In the Excelsior, a multilingual survey effort identified community needs across workforce, public realms, housing and other sectors. The long arc of this work has guided a development without displacement approach resulting in a multilingual workers center (Excelsior Works!),



community farm (Hummingbird Farm), and multiple affordable housing acquisitions and developments (Islais Place, Kapuso, Small Site Acquisition of 4340 Mission Street and Amazon Hotel). These examples of Community Action Planning have been identified, advocated for and implemented with shared power with marginalized communities as partners in leadership and decision making.

Mission Community Context

The Mission is a heavily planned-over neighborhood. Over generations, this planning has facilitated the inequitable distribution of resources. The dispossession of unceded ancestral land of the Ramaytush Ohlone and the ongoing work with this community serves as living testament of this legacy. In major transit and public works projects in the Mission, the construction of BART in the 1970s, driven by broader trends in travel patterns and economic development, further advanced these inequities. In recent generations, waves of tech and associated development have continued to cater towards more affluent residents at the expense of long-term, existing community members. Google Buses being a more fervent recent example of the intersection of transit and development perceived as harmful. Broadly, these processes have been pushed by public agencies and civic groups. Gentrification and displacement have driven a significant reduction of the Latinx community from the city where from 1980 to 2012 the Latinx population shifted from 44% to 38%, while the White population increased from 36% to 43%. As cultural centers many community-based organizations are rooted in this history of resilience based organizing and today continue serving not only the Mission, but other parts of San Francisco and the greater Bay Area as families and communities who have been forced out of the neighborhood frequently return for family, friends, services, and culture.

Excelsior Community Context

The Outer Mission/Excelsior is one of the city's most diverse neighborhoods with a large community of immigrants, youth and intergenerational households. Exhibiting strong working class characteristics, previous generations have been able to access home ownership through membership among a more robust unionized employment sector. The Outer Mission/Excelsior boasts a rich array of community serving organizations and public schools. Residents of the Outer Mission/Excelsior are more likely than San Franciscans overall to have limited English proficiency, be people of color, be low income, and be younger than 18 years old. In the 1960s, the construction of Interstate 280 (I-280) through southeast San Francisco severed the Excelsior neighborhood, increased local and regional freight traffic, and precipitated diverse neighborhood health hazards mediated through effects on air quality, environmental noise, and pedestrian conditions. Today, I-280 brings almost 200,000 vehicles per day within 100 feet of the nearest residences. While the makeup of Outer Mission/Excelsior housing stock is characteristically single family household, there is much congregate living renter occupied



housing. In recent years the affordable housing crisis has increased development pressure in the neighborhood. Recently constructed, market rate developments are unaffordable based on the majority of local residents' incomes. Additionally, affordable housing developments in the neighborhood serve higher Area Median Incomes (AMI) and offer some of the least affordable Below Market Housing (BMR) options in our city's portfolio. The proximity to the highway, the current built environment and the proximity to Mission Street and Alemany Boulevard as auto centric arteries has fostered a car and transit centric culture. Situated in a valley and bound by highways, train tracks, and among the lowest active transportation network coverage in the city, those residents choosing active transportation must navigate steep grades and exposure to high speed traffic.

Connecting the Mission and Excelsior

Exacerbated by an affordable housing crisis, gentrification and ongoing displacement has driven migration of many working class residents from Mission to the Outer Mission/Excelsior and beyond. With diverse ethnic groups, vibrant local economies, a tapestry of community serving organizations and proximity to schools these communities are culturally akin. Muni bus routes along Mission Street, including 14, 14R and 49, are among the highest ridership routes in the city and provide vital connection between these neighboring communities. Residents of the neighboring communities also remain connected by a range of services such as clinics, childcare, afterschool programs, community centers, retail shops, restaurants, family entertainment and other amenities. As our organizational, programmatic and Biking & Rolling scope of work all include both the Mission and Excelsior neighborhoods, this work has heavily featured the social and cultural interconnectedness between these geographically severed communities.

Here and Now: What does biking mean in the Mission and Excelsior

Some of the highest-volume micromobility corridors run through Equity Priority Communities (EPC) where local communities are treated as pass-throughs with a strong bias in infrastructure on facilitating the movement of goods and labor through, as opposed to considering other nuanced and distinct needs of local residents such as language access or disparate health outcomes. There are also negative perceptions



of bikes and bike infrastructure as a tool and symbols of gentrification. The Biking & Rolling Plan should focus on both neighborhood scale social infrastructure for rolling — in addition to connecting to and expanding the physical network — creating access points, community places for gathering, being, and sharing with geographic parity.

For those who are bike curious or wanting to incorporate rolling into their everyday lives there can be significant gaps to access. In Southeast neighborhoods in particular there is a lack of bike clubs, social groups, infrastructure or bike shops. In addition there is less access to parks and open spaces that are free of live traffic conditions to practice, get one's bearings and build competency and confidence in riding. Some parks have opaque restrictions on biking and rolling that may be enforced by park rangers. Riding on the sidewalk, rolling through stop signs, riding without lights are common pretext stops that disproportionately target people of color and have recently been addressed through policy changes. This behavior can be common among riders who are building their ability, feel unsafe riding in the street or are facing the prohibitive costs of equipment and accessories.

Working class and communities of color may not identify with the “cyclist” archetype. Yet people of color are more likely to rely on active transportation devices for daily travel. For some, biking and rolling is the most practical mode of transportation where transit or vehicle



ownership can be prohibitively costly, even if they would prefer to use other modes. Youth, low income and the houseless communities, for example, may rely on biking and rolling for mobility. For youth especially, and recently arrived youth in particular, biking and rolling offers freedom of mobility and agency to engage with the city and greater bay area.

There can be significant participation among communities of color, notably, when related to culturally based active

transportation events and convenings. Mass group rides have been major draws across the bay area centered around Dia de los Muertos, Cinco de Mayo, Hip Hop arts and culture, and other cultural events that offer collaborative and experiential opportunities for participation. Where EPCs have lower levels of comfort on any active transportation facility type, group settings can be encouraging and support riders who may not feel comfortable riding by themselves.

As a low-cost transportation option, biking and rolling has been shown to improve mental and physical health outcomes. Increased physical activity can improve cardiovascular health and also mental health by reducing stress and providing opportunities to get outside. Biking and rolling can also be a great social activity through group rides and other opportunities to build community.



Community Engagement Summary

As a partner in the Biking & Rolling Plan, Bicis Del Pueblo has conducted community engagement through a range of events in the Mission and Excelsior neighborhoods. This includes infrastructure audit bike rides, interactive workshops and collaboration and integration with Summer youth programs. In addition, our regular programmatic community offerings of weekly repair workshops and bi-monthly community bicycle rides have been a touch point for community input. As our organizational, programmatic and Biking & Rolling scope of work all include both the Mission and Excelsior neighborhoods, this work has heavily featured the social and cultural interconnectedness between these geographically severed communities.

- Community engagement events
 - Mission Shop night workshop – Spring 2023
 - Ride role training & infrastructure audit – Summer 2023
 - Common Roots Culminating event at Hummingbird Farm – Fall 2023
 - Power Youth Movement – Fall 2023
- Common Roots Summer Youth Program
 - Summer 2022 – ‘24
- Bicis Del Pueblo community events
 - Weekly Tuesday shop nights
 - Bi-monthly bike rides
- Ongoing coordination and collaboration with SFMTA Staff and EPC organizations.

Below we ranked issues by how often they came up across community engagement events. Looking at the top three concerns, we see some alignment with citywide preferences where “people living in EPCs have very similar preferences about facility type as those living in non-EPC neighborhoods. San Franciscans—whether living in an EPC or not—seem to agree that the most comfortable facilities are those with physical protection from vehicles...” Additionally “among EPC residents, there is a greater perception that owning or renting a bike, scooter, or active transportation device is not affordable.”

- ① More separation from cars
- ② Concern about drivers
- ③ Affordability, More lanes
- ④ Road conditions
- ⑤ More community engagement, Education, Youth bike programs
- ⑥ Learn to ride support, Public funding for bikes
- ⑦ Enforcement for dangerous driving, Wider lanes, Theft prevention and retrieval, Trauma from previous experience,
- ⑧ Free bike locks and repairs, Easier payment for bike share, MUNI not accepting bikes, Criminalization (riding while BIPOC), Learn to ride, Street signs, Community rides, More car-less areas, Slowing down car speeds, Lighting and visibility
- ⑨ Storage

Daily Active Transportation Device Use

Device/ Mode	Citywide	EPCs	People with a Disability	Race/ Ethnicity				
				AAPI	Black	His./ Lat.	Other	White
Bike (Manual)	4%	5%	6%	2%	6%	6%	5%	4%
Bike (Electric)	3%	3%	5%	-	12%	3%	6%	4%
Scooter (Manual)	3%	2%	5%	1%	8%	1%	1%	5%
Scooter (Electric)	3%	3%	6%	1%	7%	3%	5%	5%
Other Micromobility	2%	1%	7%	-	9%	3%	1%	4%
Transit	22%	38%	27%	20%	31%	26%	14%	21%
Walk	56%	56%	53%	48%	49%	65%	56%	60%
Drive	22%	21%	18%	20%	31%	26%	14%	21%

(Source: Active Communities Plan Resident Preference Survey)

Highlighted figures are 3%+ greater or lower than citywide average.



Network Coverage and Network Quality Citywide vs. Equity Priority Communities

Neighborhood*	Network Coverage	Network Quality	
	Percent of Centerline Miles with Bike Facilities	Percent of Centerline Miles with High-Quality Facilities	Percent of Network that is High-quality
Citywide Average	24%	8%	28%
Outer Mission/	32%	7%	21%
Excelsior	9%	2%	16%
Mission District	30%	8%	28%

Highlighted figures are 3%+ greater or lower than citywide average.

Recommendations

A number of recommendations came from engagement efforts related to policy, programs, and infrastructure.

Note from the SFMTA: Some of the policy, program, and infrastructure recommendations in this Community Action Plan are not within the jurisdiction of the SFMTA, requiring interagency coordination, identification of funding sources, and more thorough development and assessment prior to implementation. This document provides an overview of some of the limitations for each recommendation. This plan does not provide specific next steps for each recommendation but provides context and information that both community members and city staff can use to prioritize next steps and start to work through those issues.

Policy Recommendations

Overall Objective

Policy interventions to increase both physical and social biking and rolling infrastructure, geographic parity and equitable access to public open spaces free of live traffic hazards, for residents of all ages and abilities to have space to become comfortable riding a bicycle.

- Eliminate biking and rolling restrictions in parks.
- Reduce barriers to accessing school yards and other open spaces.



Note from the SFMTA: Implementation will need to be initiated by SFUSD, SF Park and Rec, and other agencies that manage open spaces, in collaboration with SFMTA, to change and update policy. Funding sources would need to be identified for any infrastructural upgrades to improve access.

- Work with community stakeholders, the Police Commission and SFPD to update pretext stops policy to include low-level bicycles infractions (rolling stop signs, riding on sidewalk, riding in the crosswalk, riding without lights, not using turn signal, etc).
- Pause all non-essential quick-build site enforcement that target vehicularly-housed communities.
- Enforcement of forced removal of RV housed residents shall only be enacted if permanent housing (not shelter) can be provided and the integrity and access to personal property (RV) can be secured.

Note from the SFMTA: Implementation of changes in enforcement policy will need to be initiated by SFPD, in coordination with SFMTA. Next steps could include creating a coalition of community members, agency representatives, and other organizations, including the Police Commission, to discuss the impacts of current policy, develop mutual understanding, and work to update policy on enforcement. Next steps for connecting those living in RVs to permanent housing solutions could include coordination between SFMTA, government agencies, district offices, and public and private organizations to develop a full understanding of the current opportunities and challenges to provide housing to those living in RVs, and coordinating to prioritize providing them with viable housing options. This level of multi-agency coordination requires a high level of staff resources and/or funding.

- Collaborate with employment support centers as points of assessment where active transit can support shifts in mode choice.
- Leverage active transportation with local health based organizations to address adverse health impacts for BIPOC communities.
- Increased engagement with and oversight by community stakeholders through regular, in community meetings to increase transparency and accountability of SFMTA initiatives and process.
- Support language access with in-language signage, workshops and materials.

Program Recommendations

Overall Objective

Strengthen community cohesions and resilience through improved health, leveraging active transportation as a means of healing and joy in response to adverse health impacts for BIPOC communities.

- Support CBOs in storing and transporting Surplus Property Ordinance bicycles.



Note from the SFMTA: Implementation will require SFPD, and any other agency or organization that provides bicycles to continue to support CBOs through the Surplus Property Ordinance. Additional funding is required for space and staffing to store and allocated bikes. Next steps would include discussing needs and capacity to increase these services and to assess program costs.

- Program to provide a free bike for any student in SFUSD that wants a bicycle

Note from the SFMTA: Implementation will require SFUSD and other agencies to develop the process and logistics of the program, as well as identify funding sources. Immediate next steps would include discussing potential funding sources and/or partnerships with private companies, such as bike distributors, to provide resources.

- Bike repair facility in parks to provide easy access to pumps, patch kits and tubes, multi-tools, etc that help people to use their bike to get home

Note from the SFMTA: Implementation will need to be initiated by Parks and Rec and other organizations related to bike distribution and repair. Funding would need to be identified for space and staffing. Next steps would include assessment of need and optimal location for this type of facility, and options for funding.

- Plan to move forward with Municipal Bike Share options outlined in the Budget and Legislative Analyst report. Explore alignment for acquisition under SF Green Bank/Public Bank.

Note from the SFMTA: Implementation will require the identification of a funding source to acquire inventory and staff program. Next steps would include the creation of a working group to assess the viability of municipal bike share in San Francisco, develop the program, and create a funding mechanism.

- Explore fare-based incentives, such as free Muni access, for those who access public transit service via active transit devices.
- Increase transit access to local parks as well as distant premier destinations (ex: Great Highway and Golden Gate Park, Crissy Fields, etc) through recreational shuttle service or free MUNI passes.

Note from the SFMTA: Implementation will require the identification of a funding source to supplement fare revenue and/or shuttle service. Additional staffing resources will be required for planning and implementation of these programs.



Infrastructure Recommendations

Overall

- Physical separation from cars.
- Keeping bike lanes clean and clear of debris and obstruction.
- High visibility design of biking and rolling facilities that is culturally relevant
- Enhanced intersection lighting near all schools and parks.

Connectivity – Mission

SFMTA biking and rolling projects should focus on neighborhood-scale connectivity and increasing opportunities for rolling and gathering. The creation of active transit infrastructure is separate from generating an organic increase in more people rolling. Social infrastructure, especially in the Mission, is a critical component to cultivating active transit practices in BIPOC communities with an emphasis on experiential and relational opportunities for engagement and growth. Special attention must be given to addressing the unique relationship between Mission and Excelsior neighborhoods that has been severed by highways. Beyond simply providing infrastructure, useful infrastructure must be placed to take people where they want to go and be designed in a way that is useful to them.

- Restore and maintain connectivity via McCoppin Hub Plaza lane from Valencia to Market.
- Improve connectivity to Wiggle route - Sanchez St from 17th St to Duboce Park.
- Expand east-west connectivity by bolstering bike infrastructure and car separation on 15th Street.
- Improve north/southbound connectivity to the Excelsior via Glen Park by enhancing connections on San Jose Ave, Arlington St, and Chenery St.
- Improve connectivity from 16th St westbound to 17th St via 7th Street.
- Bicis Del Pueblo Mission Hub (Mission and 16th Street) Improve active transportation infrastructure, which is severely lacking at our congested and critical transit hub. This includes bike parking and road infrastructure to support arrival and departure for those who participate in community events and utilize services.

Note from the SFMTA: At the present time, no funding is identified or allocated for these recommended improvements. Implementation will require coordination with DPW and other city agencies to identify funding to prioritize infrastructure improvements. Next steps could include initial planning analysis and assessment of potential treatments to understand project scope and pursue funding sources.



Connectivity – Excelsior

Located in a valley, the Excelsior faces unique topographic challenges. Additionally, connectivity to the rest of the city is strained by the 280 Freeway to the north and west and Highway 101 to the east. This creates significant barriers to entry for new and potential active transit users related to navigation, road safety and difficulty. As the Excelsior falls far behind other parts of the city in active transit infrastructure, physical accommodations must be part of a broader approach to best serve the local community. In addition, social infrastructure is a critical component to cultivating active transit practices in BIPOC communities with an emphasis on experiential and relational opportunities for engagement and growth. Focus on neighborhood scale connectivity and opportunities for rolling and gathering should be given, with special attention given to addressing the unique relationship with Ingleside and Oceanview communities, as well as between the Excelsior and Mission neighborhoods.

- Improve north-south connectivity on Lyell St from Cayuga Ave to Bosworth St.,
 - Address conflict from merging vehicles at Still St
 - Improve lighting in the underpass
 - Add delineation/protection at Bosworth St
 - Address vehicle speeds, improve signage, and repair poor road conditions.
- Improve connectivity in the Glen Park area
 - Better lighting at San Jose Ave, Arlington St, Natick St, Wilder St, Arlington St intersection.
 - Repair road on and around Bosworth St
 - Address safety concern for left turn from Arlington St to Bosworth St
- Highlight and optimize northbound connection to City College via Havelock St bridge and Marston Ave
- Improve east/west connection via Alemany Blvd
 - Improve visibility and access to and from bike lane at Stoneybrook Ave, addressing conflict with vehicle traffic turning onto Alemany Blvd
 - Improve access to and from the two-way bike lane at Alemany Blvd and Putnam St so it is more intuitive, particularly the westbound direction.
 - Improve separation and visibility on westbound Alemany Blvd at the fork to Justin Dr/ Congdon St.
 - Overall enhanced protection along the corridor.
- Explore an east/west connection to connect the Excelsior to Portola and Bayview via McLaren Park
- Complete east/west connection to Ocean View/SFSU via Brotherhood Way
 - Close gap in bike lane west of Junipero Serra Blvd to Lake Merced Blvd.
 - Close gap in bike lane from eastbound Alemany Blvd at Brotherhood Way to San Jose Ave
- Improve bike parking and access to Bicis Del Pueblo Balboa Transit Hub at Geneva Ave and San Jose Ave

Note from the SFMTA: At the present time, no funding is identified or allocated for these recommended improvements. Implementation will require coordination with DPW and other city agencies to identify funding to prioritize infrastructure improvements. Next steps could include initial planning analysis and assessment of potential treatments to understand project scope and pursue funding sources.





Process

Moving forward, an important component of decision making processes is finding the connections to transportation and mobility that are coming up in other community spaces. It may mean that instead of having a laser focus on adding active transportation infrastructure, the SFMTA must join conversations where communities are talking about overall public realm improvements or related issues such as upzoning around transit corridors. As an agency, it is important for SFMTA to not be siloed and strive for a comprehensive approach. It is important to address difficult issues head on, for example, having the conversation about how these investments contribute to gentrification. Efforts should strive to build knowledge and leadership through the process and acknowledge existing alternative spaces for inclusive planning and decision making such as Communities United for Health and Justice (CUHJ) — Filipino Community Center, Coleman Advocates for Children and Youth, PODER — D11 schools, Casa De Apoyo, Excelsior Works!, IT Bookman, in the Excelsior and the REP Coalition, Mission Anti Displacement Coalition, Housing Rights Coalition in the Mission.

References and Resources

These references provide insight into bodies of work that inform PODER's approach and framework for our Community Action Plan.

- [Urban Displacement Project](#)
- [Mission Community Organizing and Resistance in SF's Mission District](#)
- [OUR HIDDEN COMMUNITIES](#)
- [ACS Profiles](#)
- [Research: Climate Mitigation and Displacement](#)
- [Health, Traffic, and Environmental Justice: Collaborative Research and Community Action in San Francisco, California](#)
- [What's white, male and 5 feet wide? Bay Area's bike lanes](#)
- [No parking at Mission affordable housing means tenants pay the price](#)
- [Chicago's Unique Bike Giveaway Program Is a Win for Mobility Justice](#)
- [Confirmed: Millennium Park bike station will now only serve cops instead of commuters](#)
- [Transit-Based COVID-19 Monitoring Pilot Launched in Mission District](#)
- [Traffic Causes Death and Disease in San Francisco Neighborhood](#)
- [Health, Traffic, and Environmental Justice: Collaborative Research and Community Action in San Francisco, California](#)
- [Better Neighborhoods, Same Neighbors](#)
- [Fight For Our Home](#)
- [Home Is Where The Heart Is](#)
- [People Powered Planning in District 11](#)
- [Putting the Pieces Together](#)
- [BLA Report: Public Bike Share in San Francisco: Issues and Options for Consideration](#)



BAYVIEW HUNTERS POINT COMMUNITY ADVOCATES

Community Action Plan



Who is Bayview Hunters Point Community Advocates?

Bayview Hunters Point Community Advocates (Advocates) is an Environmental Justice Organization, founded in 1994, to educate residents on the environmental issues in the neighborhood, help residents identify city services needed in the neighborhoods, build community skills in policy advocacy, and develop the Community's voice in policy development and implementation. Advocates is focused on providing community organizing, policy advocacy, educational and direct services aimed at building and growing neighborhood capacity for better health and social change in a manner that results in building our power to direct our Community within the City structure.

Our agency is an active collaborator with local leadership and a broad network of advisors and respected partners. And, through our food sovereignty activities, we work to make health-supportive foods more accessible.

Why we participated in this program

We are engaging community in partnership with the San Francisco Metropolitan Transportation Agency to more fully involve the city's under-represented communities in a comprehensive community planning process on safely moving people and goods throughout the city. We are preparing District 10 residents for active involvement in dealing with current and impending sea level rise and catastrophic flooding events given our soil and shoreline's high levels of industrial and military nuclear waste and our districts high water table.

In addition to the improved direct health outcomes of fresh high-quality food and food security, the mutual benefits of community-led systemic changes go far beyond the food to multiple equity outcomes and social determinants of health – i.e., increasing employment and community power, decreasing isolation and stress, and building neighborhood partnerships, solidarity, and mental health. In many ways, our existing programs are not just an initiative that is building the capacity of the Advocates, but also builds the capacity of the Bayview Hunters Point community as a whole.

Workshops and Activities in our Program

Through a series of workshops, Advocates has been able to develop an understanding of major concerns related to Biking and Rolling in our community. Community meetings were organized and hosted by Advocates every other month through August 2024. A fairly representative group of residents from this diverse community attended the meetings and were very vocal in their comments.



The major concerns include:

- Exposures to numerous toxins found in the area including radiological contamination
- Traffic and industrial emissions including high levels of exposure to diesel emissions from the number of truck trips through the community
- Impacts from freeways that traverse the neighborhood, and
- SAFETY.

People recognize that public transit can be beneficial in addressing exposure to hazardous particulates, unfortunately the history of all municipal services in the neighborhood has been poor to nonexistent. As a result, the Biking and Rolling Plan is not a high priority for the residents and stakeholders we have heard most from.

What we heard

Specifically, as it relates to designating bike lanes for safety and convenience, the needs of the residents and businesses in BVHP have been systematically ignored by transportation planners. This is best illustrated by decisions to establish bike lanes (Cargo Way) and aspirations to remove parking on key streets to make way for bike lanes (3rd St, Illinois St). While there are a number of bike riders in the neighborhood, support for reduction of parking spaces to accommodate their safety while not considering the impact on the business that is conducted on those streets has been our experience, to the detriment of businesses and the workforce in the southeast sector of San Francisco.



Lack of sufficient late night bus service requires that residents own multiple vehicles for family members who work swing and graveyard shifts, creating a parking nightmare, especially with most residential garages having been converted to living spaces to address the cost of rent in the city.

Neighbors stress that this is the kind of issue that needs to be addressed before effort is spent on developing new bike lanes.

Suggestions that MTA can and should take some lead on have been made and repeated by residents and stakeholders including:

Focus on making streets something the Black community owns and honors in recognition of the history and development of BVHP. The fact is, for the Black community, just being (gathering) on 3rd Street in particular, but other thoroughfares as well, has been semi-criminalized.

Current Transportation Infrastructure challenges

1. Public transit needs to be expanded to meet current needs and expectations for a municipality such as San Francisco
2. Performance/reliability of public transit. Bayview Hunters Point and all of southeast San Francisco have experienced less service than other neighborhoods, more infrequent and interrupted service due to fewer runs serving the area compared to other neighborhoods, coupled with a willingness to pull runs from Bayview/Hunters Point, serving lines when demand is high in other neighborhoods or special events occur.
3. Gaps in neighborhood services that leave large swaths of the neighborhood without any service and no alternative resources to get people to locations where there is reliable service.
4. Gaps in connectivity to rest of city — getting from most of the southeast part of the City to downtown takes one hour or more from most locations — a record that is indefensible and unexplainable and getting to parts to the West and North take as long or are not reachable
 - a. Geographic isolation creates a need for cars to get around. This issue is compounded by lack of parking in the neighborhood.
5. Freight and delivery trucks are impactful to the neighborhood, as they do not stick to designated routes, perform evasive maneuvers in traffic, and cause issues by double parking.
6. Street maintenance, such as pothole elimination, seems to not exist.
7. Unaccepted streets results in many public nuisance violations occurring that cannot be addressed through normal measures.

Current Bike Plan Concerns/Challenges

Safety concerns

1. Road conditions

The main arteries that have bike lanes at this time are heavily travelled, have narrow lanes and support the heavy truck traffic through the neighborhood. Example: Over much opposition, a bike lane was installed on Cargo Way, aptly named as one of the main roads out of the San Francisco Port for tractor trailer trucks and large drayage trucks to move goods out of the Port to freeways and the Bridges.

Bikes and scooters on Third Street must compete with light rail trains, buses, semi-trucks, double parked delivery vehicles, heavy auto traffic and pedestrians in very narrow lanes.

2. Intersections

There are a number of intersections throughout the neighborhood that are so dangerous they are difficult to even describe. One of the intersections that received the most complaints is located at Oakdale Avenue and Industrial Street. There are five stop signs at the intersection, bike lanes all the way around and no indicator to determine who goes next.



*Intersection of Oakdale/Industrial
(Unsafe Bike Lanes)*



*Third Street and Evans Avenue
(Unsafe Bike Lanes)*

3. Lack of lighting

Poor lighting along streets in the neighborhood has been a constant complaint of pedestrians, cyclists and motorists alike.

4. Bike lane visibility

The streets in Bayview Hunters Point that have separated lanes for bike traffic are located on heavily traveled streets with lots of large trucks, including 18 wheelers, large delivery vans, as well as Muni buses and light rail train cars and sidewalk parking. Additional lanes are marked with bicycle symbols that are old and very faint. Understanding where cyclists should be safest is a puzzle.

5. Connectivity issues

- a. Locally within Bayview/Hunters Point
- b. Connectivity to other neighborhoods
- c. Connectivity to Downtown

6. Current Bike Culture and Accessibility

The following issues describes the conditions of biking culture in the neighborhood that discourage biking in the neighborhood and lead to verbal conflicts among community members when traffic was the subject of discussion:

- Lack of accessibility to bikes and maintenance
 - Bike shops: no bike shops in close proximity to the neighborhood. There are a few bike programs that periodically hold free repair workshops during special events.
 - Racks: there are almost no bike racks in the neighborhood.

- Lack of Bike Programming

In Bayview, there are many community issues and concerns that take priority over focusing on the needs of bike riders, e.g., radiologically contaminated soils that have no clean-up plan, regular flooding of streets during heavy rains, poor access to public transit, emissions from two freeways and street traffic in the only industrial neighborhood in the City, etc. This presents challenges to prioritizing bicycle focused programs. In addition, the following are lacking:

- Bike education
- Events that support Biking
- Lack of Bike Storage

Solutions and Recommendations

The following are the most often heard recommendations to address what community residents and stakeholders see as major challenges related to transportation.

1. Residential Parking Garage
2. Efficient Public access to adjacent neighborhoods and downtown
3. Protected bike lanes
4. Bike lane paths that are safe and go through the neighborhood to connect to schools and after school programs
5. Bike racks/bike garages
6. Bike shops
7. Bike education programs, e.g., Integrate biking resources with local CBO's especially those with youth programming
8. Build in biking with schools and adult programs
9. Bike giveaways

Note from the SFMTA: Implementation of these recommendations will require collaboration with multiple agencies outside of SFMTA, including DPW and SF Planning, to assess and update existing policy and priorities, as well as identify funding and staff resources for programs and infrastructure improvements. Immediate next steps include prioritizing implementing the recommendations from the Bayview Community-Based Transportation Plan and building partnerships with community-based organizations to support and grow programming.

Specific Recommendations

Note from the SFMTA: Some of the policy, program, and infrastructure recommendations in this Community Action Plan are not within the jurisdiction of the SFMTA, requiring interagency coordination, identification of funding sources, and more thorough development and assessment prior to implementation. This document provides an overview of some of the limitations for each recommendation. This plan does not provide specific next steps for each recommendation but provides context and information that both community members and city staff can use to prioritize next steps and start to work through those issues.

- MTA must develop a more full-throated plan
 - to address the lack of options other than private automobiles just to reliably get into or out of the neighborhood, for example,
 - fewer or zero diversions for our public transit lines, and
 - more sensible bike routes that do not disrupt traffic flows on busy thoroughfares, and that are safer for cyclists, pedestrians, and cars
 - and, better traffic violation enforcement against reckless cyclists.
- MTA must find ways to support youth in our community, especially given the relatively high percentage of residents under 18 as compared to the rest of the City.
- MTA must work with other City Agencies to actively celebrate community events, acknowledging the diversity of cultures in the neighborhood and the opportunities to bring those cultures together, as well as the fact that the neighborhood has historically suffered from a lack of City Services and support.
- MTA must take the lead of community residents to act on the recommendations of the Bike and Rolling Neighborhood Safety Plan that addresses the given suggestions and puts the needs of the neighborhood above the whims of cyclists who go home to a completely different environment.

Note from the SFMTA: Implementation of these recommendations will require collaboration with multiple agencies outside of SFMTA, including DPW and SF Planning, to assess and update existing policy and priorities, as well as identify funding and staff resources for programs and infrastructure improvements. Immediate next steps include assembling a working group focusing on the needs of youth in the Bayview and how to best acknowledge, uplift, support, and bring together the Bayview's diversity of cultures.



TENDERLOIN BIKING & ROLLING

Community Action Plan

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INTRODUCTION

San Francisco Biking and Rolling Plan: Active Communities Plan (BRP)

The BRP is a two-year initiative to update the 2009 Citywide Bicycle Master Plan. Originally set for adoption in March 2024, the deadline has been extended to allow for additional community input and planning.

Once adopted, the plan will guide SFMTA's investments in active transportation for the next 10–15 years, with a particular focus on inclusivity and engagement, especially in six equity priority communities, including the Tenderloin. The BRP aims to achieve Vision Zero goals—ending traffic fatalities and serious injuries—and to reduce low-carbon trips by 80% by 2030.



Community Partner Introduction

The Tenderloin Community Benefit District led community engagement efforts, in collaboration with the Tenderloin Traffic Safety Task Force, they aimed to ensure that residents, community members, small businesses, and local organizations—especially those vulnerable to street safety and accessibility—played a significant role in shaping and implementing the Programs, Projects, and Initiatives offered in this plan. This process was essential for identifying key priorities and ensuring the plan reflects the community's needs and desires—safety and accessibility.

COMMUNITY CONTEXT

Historical Context

The Tenderloin District of San Francisco once boasted a vibrant nightlife, complete with live music venues, art galleries, nightclubs, and hotels. However, the urban renewal and transportation policies of the 1950s led to significant changes. Streets were redesigned to prioritize the needs of wealthier drivers and their vehicles rather than the Tenderloin community. Two-way streets were converted into wide, multi-lane thoroughfares, resulting in the narrowing of sidewalks. Meanwhile, one-way streets became fast-moving cut-throughs for downtown traffic. These changes have led to unsafe sidewalk and street conditions for the most vulnerable among us—youth, seniors and people with disabilities.

Current Situation

The Tenderloin is home to 35,000 residents, many of whom belong to some of San Francisco's most vulnerable and historically marginalized communities. This includes people of color, transgender individuals, people with disabilities, seniors, those living in single-room occupancies (SROs) and supportive housing, as well as families of immigrants and refugees with limited English proficiency.



This downtown residential neighborhood has the highest concentration of youth and people with disabilities in San Francisco, and the second highest population of seniors. Also, the vitality of the community is closely linked to the success of its 200+ local small businesses and 150+ organizations.

Pedestrian and traffic safety is a significant concern for those who live, work, and commute in the Tenderloin. Nearly every street in the neighborhood is part of the city's High Injury Network—comprising just 13% of San Francisco streets but accounting for 75% of severe traffic injury collisions and fatalities.

Over the course of the last five years the Tenderloin has advocated for and advanced in implementing a variety of street safety improvements. For example:

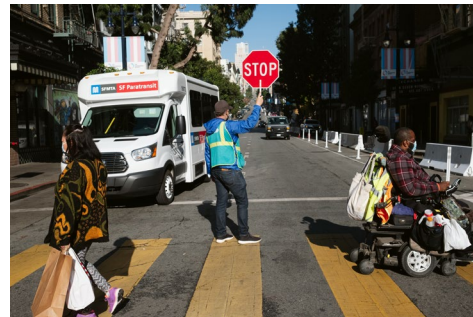
- Safer Taylor Street Project (*under construction*),
- Installed 11 pedestrian scrambles,
- Reduced speed limit to 20 miles per hour throughout the neighborhood, now a statewide program,

- Implemented a No Turn On Red policy, observations revealed 70% reduction of vehicles blocking or encroaching onto crosswalks while the light was red; and 92% of vehicles are complying with the turn restriction. Efforts are being made to implement a ‘No Turn On Red’ policy across San Francisco.
- Completed Quick-Build projects on Golden Gate Avenue, Turk Street, Jones Street, Leavenworth Street, and Hyde Street. Larkin Street project planning and outreach is underway.
- Shared Streets—Golden Gate Green Way, Dodge Alley and Elm Alley

COMMUNITY ENGAGEMENT

From July 2022 to August 2024, the Community Engagement process for the Tenderloin BRP involved hundreds of residents and community members through tabling events, meetings, and workshops. The planning engagement involved a series of 4 workshops with over 150 community members, local organizations, small business leaders, and transportation experts. These workshops focused on identifying key issues, gathering input on potential solutions, and fostering collaboration among stakeholders to develop a comprehensive biking and rolling plan.

This report supports findings from previous pedestrian and traffic safety outreach efforts. Including findings from community outreach efforts of the TL Community Action Plan, Safe Routes to School, Safe Streets for Seniors, TL Community Alternatives to Police, and Vision Zero Quick-Build Projects (Jones Street, Golden Gate Avenue, Turk Street, Leavenworth Street and Hyde Street).



While street safety is a primary concern, it's clear that many low-income families, workers, small businesses, and organizations rely on motor vehicles and require parking access. Although only about 20% of Tenderloin residents own cars, tens of thousands of vehicles pass through daily. The growing use of electric bikes and scooters by low-income residents and gig workers has further increased safety concerns on the neighborhood's narrow sidewalks and streets.

Through the engagement and planning process several key areas of concern regarding sidewalk and street safety, parking, and accessibility were identified.

KEY CONCERNS:

- ① **Safety**
- ② **Parking**
- ③ **Biking & Rolling Accessibility**
- ④ **Lack of Public Space**
- ⑤ **Displacement & Gentrification**

① **Safety**

- a. **Sidewalk Use** — Sidewalks are often used by bikers/rollers due to unsafe road conditions, leading to conflicts with pedestrians. A common complaint among seniors, parents, and people with disabilities. They state it is too dangerous, and a great risk having a large number of people speeding or biking/rolling recklessly on the sidewalk. The increasing number of people using electric bikes/scooters for commute and work is leading to more conflicts and dangerous conditions.
- b. **Intersections** — In the Tenderloin intersections are particularly hazardous for pedestrians and those biking and rolling. They are especially dangerous for youth, seniors and people with disabilities. Seniors and people with disabilities often state it takes them longer than the 25 seconds allotted to cross safely. In addition, the increase in biking/rolling, vehicle numbers and larger vehicle sizes creates greater risks to vulnerable pedestrians. The large number of drivers that fail to yield to pedestrians and run red lights, needlessly puts vulnerable people at risk.
- c. **Street Conditions** — Poor street conditions, including potholes, uneven surfaces, broken glass and trash. They pose significant safety risks for those biking and rolling — including those using mobility devices. Double parking and reckless driving are additional serious safety concerns. Contributing greatly to the increase of biking and rolling on the sidewalk.
- d. **Secure Transit Shelters** — A large number of vulnerable transit users express concern that shelters are often occupied by people loitering and using drugs. Often refusing to make space for people needing to sit or find shelter. Additionally, several seniors and people with disabilities expressed concerns there are no benches or seating to relax and rest.
- e. **Faulty Lights** — 6 of 11 pedestrian signals in the Tenderloin are not working properly. This increases unsafe conditions and confusion; and erodes trust and confidence in the city.

- f. **Lack of Lighting** — Insufficient street lighting at night increases safety risks for all road users, particularly pedestrians and those on bikes or rolling devices.
- g. **Biking & Rolling Lane Safety/Visibility/Upkeep** — Existing bike lanes often lack proper visibility and upkeep, making them unsafe and less appealing for use. Also, they often have vehicles or trash bins illegally blocking them. Forcing bikers and rollers to weave into traffic and/or choose to ride on sidewalks.
- h. **Accountability/Enforcement** — Concerns regarding the lack of accountability and enforcement were expressed throughout the engagement process. Vulnerable pedestrians were particularly vocal about the need for better traffic enforcement of the laws and accountability for drivers, bikers and rollers who endanger them.

2 Parking

- i. **Bike & Scooter Secure Parking** — Home Storage Space and Sidewalk — Residents, workers, and business patrons face challenges in finding secure parking and storage options for their bikes and scooters at home, work and in public spaces. Resulting in many potential users avoiding biking and riding. Concerns of theft and vandalism are detractors.
- j. **Motor Vehicle Parking** — A common complaint from families, small business owners and community workers is there is not enough parking space available and it is extremely difficult/inconvenient to load/unload when needed. Additionally, the \$400 plus monthly cost of the average local garage membership makes it difficult or impossible to secure for low-income families/persons.
- k. **Street Improvements** — Street safety and biking and rolling improvements are greatly limited because of motor vehicle parking demands. Additionally, the narrower streets in the neighborhood and high volume of vehicular traffic passing through have limited sidewalk expansion and protected biking and rolling network options. Additionally, infrastructure changes are often limited by the needs of the San Francisco Fire Department—emergency responders—in order for them to respond quickly and have proper accessibility to buildings during emergencies.

3 Biking & Rolling Accessibility

- l. **Costs** — Electric bikes, scooters and wheelchairs are unaffordable for a large number of low-income residents and workers. The device purchase, maintenance, storage and upkeep cost are an additional barrier that prevent people from adopting biking and rolling as an option.
- m. **Wheelchair Accessibility** — Too often there is a lack of ADA clearance on sidewalks, hindering mobility for residents and community members with disabilities. Sidewalk blockage due to tents, loitering and clutter commonly make sidewalks impassable and unsafe. It is not uncommon to see vulnerable adults rolling or walking in the street to pass congested sidewalks. There are still several intersections that do not have curb ramps.

- n. **Rideshare Costs** — High costs of rideshares limit accessibility for many residents and workers, particularly those with low-incomes.
- o. **Charging/Mobility Hubs** — The neighborhood lacks adequate charging stations and mobility hubs for electric bikes, scooters, and wheelchairs. The absence of them makes it challenging for residents to conveniently access a range of transportation options. The hills and street inclines make it difficult for electric wheelchairs and scooters to operate, especially if batteries drain.
- p. **Bike & Scooter Shops** — There are no bike or scooter shops in the area, limiting access to maintenance and repair services.
- q. **Lack of Bike Programs**
 - i. **Bike/Scooter/Wheelchair Education** — Educational programs for safe bike, scooter, and wheelchair use are lacking, contributing to safety issues and lower adoption rates.
 - ii. **Events that Support Biking** — Community events that promote biking and rolling are rare, limiting opportunities to foster a strong biking and rolling culture.

④ **Lack of Public Space**

- r. **Impact on Quality of Life** — The lack of public space for the number of residents and visitors of the Tenderloin diminishes quality of life. The majority of residents live in SRO's or small apartments where there is little to no public space essential for relaxation, recreation, and socialization.
- s. **Health Implications** — The lack of green spaces leads to adverse health effects, both physical and mental. Public spaces provide areas for exercise, which is crucial in combating issues like obesity and heart disease. Moreover, these spaces are vital for mental health, offering a retreat from the urban environment. With a growing senior population, the need for public spaces is crucial.
- t. **Social Interaction** — Public spaces are critical for fostering community and social interaction. In their absence, residents are likely to feel isolated, which can weaken community ties and reduce social cohesion.
- u. **Environmental Concerns** — Public green spaces play a crucial role in urban ecology. They help in reducing air pollution, mitigating heat, and providing habitats for urban wildlife. The absence of such spaces can exacerbate environmental degradation.
- v. **Economic Impact** — A lack of public spaces can affect the local economy. Parks and public squares can attract visitors, boost local businesses, and increase property values. Their absence contributes to making the neighborhood less attractive to potential residents and investors.
- w. **Equity and Accessibility** — Public spaces are often seen as equalizers, offering free access to recreation and nature regardless of income. Without these spaces, lower-income residents may have fewer opportunities for leisure and outdoor activities.

⑤ Displacement & Gentrification

- x. **Affordable Housing Preservation** — There is an underlying concern that biking and rolling improvements in the neighborhood will lead to an increase in housing costs, and affordable housing will become less attainable for the low-income, immigrants and the newly arriving.
- y. **Displacement** — Historic residents and small businesses face ongoing concerns with the rising costs of living and operating in the neighborhood and fear displacement.

RECOMMENDATIONS

Throughout the engagement and planning process, residents and community members shared a number of goals, objectives, policies, actions, and program recommendations. Here you will find a listing of most of them.

Note: Some of the policy, program, and infrastructure recommendations in this Community Action Plan are not within the jurisdiction of the SFMTA, requiring interagency coordination, identification of funding sources, and more thorough development and assessment prior to implementation. This document provides an overview of some of the limitations for each recommendation. This plan does not provide specific next steps for each recommendation but provides context and information that both community members and city staff can use to prioritize next steps and start to work through those issues.

① Safety

Goal:

- Create a safe and accessible environment for all residents and community members, particularly vulnerable populations, by addressing hazards in roadways, sidewalks, intersections, and public spaces.

Objectives:

- Reduce conflicts between pedestrians and bikers and rollers on sidewalks.
- Create a protected biking and rolling network.
- Improve pedestrian, biking and rolling safety at intersections, particularly for families, youth, seniors and people with disabilities.
- Enhance the safety and maintenance of street conditions. Repave streets.
- Secure and improve the safety of transit shelters and install more benches.
- Ensure all pedestrian signals are functioning properly.
- Increase street lighting to improve nighttime safety.
- Improve the safety and visibility of biking and rolling lanes.
- Enhance traffic enforcement and accountability for all road users.

Policies:

- Prioritize the safety of vulnerable populations in all transportation and public space planning.
- Further implement “Vision Zero” principles to eliminate all traffic fatalities and severe injuries.
- Encourage and promote the use of alternative transportation modes while ensuring they do not compromise pedestrian safety.

Actions:

- **Sidewalk Use:**
 - Install north and south bound dedicated biking and rolling lanes to deter sidewalk usage.
 - Educate and enforce restrictions on sidewalk biking and rolling.
 - Install signage and pavement markings to clearly define areas for walking, biking, and rolling. Including the installation of sidewalk and street art/murals.
 - Increase public awareness campaigns on the importance of sidewalk safety.
- **Intersections:**
 - Extend crossing times at intersections to accommodate seniors and people with disabilities.
 - Install raised crosswalks and bulbouts to reduce vehicle speeds and improve visibility.
 - Enforce penalties for drivers who speed and fail to yield to pedestrians.
- **Street Conditions:**
 - Prioritize regular street maintenance programs focused on repairing potholes, uneven surfaces, and removing debris.
 - Implement frequent enforcement against double parking and reckless driving.
- **Secure Transit Shelters:**
 - Perform regular security patrols at transit shelters to deter loitering and drug use. For instance, have Transit Ambassadors and/or SFPD patrol and monitor transit shelters.
 - Install surveillance cameras to monitor and enforce proper use of transit shelters.
- **Faulty Pedestrian Signals:**
 - Conduct an audit of pedestrian signals and prioritize the repair of faulty signals.
 - Provide campaigns to inform residents and community members on reporting malfunctioned signals and proper use of pedestrian scrambles.
- **Lack of Lighting:**
 - Install additional street lights in poorly lit areas, prioritizing routes used by pedestrians, bikers and rollers.
- **Biking & Rolling Lane Safety/Visibility/Upkeep:**
 - Install additional protected biking/rolling lanes — especially north and south bound.
 - Regularly inspect and maintain bike lanes, ensuring they are free from obstructions.
 - Enforce penalties for vehicles and businesses that block bike lanes.
- **Accountability/Enforcement:**
 - Increase the presence of traffic enforcement officers.
 - Implement automated enforcement technologies such as red-light cameras and speed cameras. *(Additional to the one being installed.)*

Program Recommendations:

- Develop a “Safe Streets” program to coordinate all safety-related initiatives and gather ongoing feedback from residents and community members. Particularly, collaborate with the San Francisco Planning Department and Tenderloin Community Action Plan Working Group.
- Create a “Bike/Roll Safety Ambassador” program to educate the public on safe biking and rolling practices.
- Implement a “Light Up the Night” campaign to enhance street lighting and improve safety.

Note from SFMTA: Implementation of these recommendations will require collaboration with multiple agencies outside of SFMTA, including DPW, SF Planning, and SFPD to assess and update existing policy and priorities, as well as identify funding and staff resources for programs and infrastructure improvements. Immediate next steps would include developing a Tenderloin-specific community working group, including existing groups, such as the Tenderloin Traffic Safety Task Force and Tenderloin Community Action Plan Working Group, to discuss safety policies and priorities, as well as the equitable enforcement of traffic violations and priority areas for improved lighting.

② Parking**Goal:**

- Provide secure, accessible, and affordable parking options for all residents, small businesses and visitors while balancing the needs for public space and mobility — safety.

Objectives:

- Increase secure parking options for bikes and scooters.
- Ensure motor vehicle parking meets the needs of residents, businesses, and visitors — particularly for low-income families and drivers.
- Optimize street design to support safety and mobility while accommodating parking demands.

Policies:

- Prioritize the creation of secure parking facilities for bikes and scooters.
- Manage motor vehicle parking in a way that balances the needs of drivers, pedestrians, bikers, and local businesses.
- Incorporate parking solutions into broader transportation and urban planning strategies (i.e. residential parking permits, residential and workforce parking garage, etc.)

Actions:

- **Bike & Scooter Secure Parking:**
 - Install secure bike and scooter parking racks or facilities in high-traffic areas.
 - Provide incentives for businesses, residential and commercial buildings to offer secure bike/scooter parking.
- **Motor Vehicle Parking:**
 - Explore options for affordable parking solutions, including subsidized rates for low-income residents and workers.
 - Implement a loading/unloading zone program to ease parking pressures for residents, businesses and organizations.
 - Review and adjust parking regulations to better accommodate neighborhood needs.
- **Street Improvements:**
 - Collaborate with the SFFD and other emergency services to ensure street safety and accessibility are not compromised.
 - Explore shared street designs that balance the needs of all road users, including pedestrians, bikers, rollers, and drivers.

Program Recommendations:

- Create a “Park Smart” initiative to educate residents and visitors on vehicle parking options and regulations.
- Implement a free or reduced rate parking program for low-income residents and workers. Assure enrollment/signup is easy!
- Launch a pilot program for secure bike/scooter storage facilities in residential and commercial buildings.

Note from SFMTA: Implementation of these recommendations will require inter-departmental coordination within SFMTA to assess and update existing policy and priorities, as well as identify funding and staff resources for programs and street improvements. Other considerations include space limitations on the street, working with SFFD to ensure access is maintained, and trade-offs from reducing parking revenue. Immediate next steps would include working with community to establish priority parking needs and solutions that also prioritize safety.

③ Biking & Rolling Accessibility

Goal:

- Increase access to biking, rolling, and wheelchair options for all residents, with a focus on affordability and inclusivity.

Objectives:

- Make biking, rolling, and wheelchair use affordable for low-income residents and community members.
- Improve biking, rolling and wheelchair accessibility across the neighborhood and connect to nearby communities — SoMa, Fillmore, and Western Edition.
- Expand infrastructure and services to support electric bikes, scooters, and wheelchairs.

Policies:

- Promote equitable access to biking and rolling options through subsidies and infrastructure investments.
- Ensure all public spaces and transportation options are fully accessible to people with disabilities.
- Encourage the development of local businesses that support biking and rolling.

Actions:

- **Costs:**
 - Implement subsidy programs for low-income residents and community members to purchase and maintain bikes, scooters, and wheelchairs.
 - Partner with nonprofits and local businesses to provide affordable maintenance services.
- **Wheelchair Accessibility:**
 - Prioritize the installation of curb ramps and ensure all intersections are accessible.
 - Implement regular sidewalk clearance programs to remove obstacles and ensure safe passage.
 - Ensure city agencies and sub-contractors adhere to ADA compliance at all times.
- **Rideshare Costs:**
 - Provide discounted rideshare rates for low-income residents and community members, particularly seniors and those with disabilities.
- **Charging/Mobility Hubs:**
 - Install charging stations for electric bikes, scooters, and wheelchairs in strategic locations (i.e. parks, shared streets, etc.).
 - Develop mobility hubs that provide a range of transportation options, including shared bikes, scooters, and public transit.

- **Bike & Scooter Shops:**
 - Offer incentives for new bike and scooter shops to open in the neighborhood.
 - Support shops with grants and technical assistance to expand their services.
- **Lack of Bike Programs:**
 - Launch educational programs on safe biking, scooting, adaptive cycling, and wheelchair use, targeting all age groups.
 - Organize community events that promote biking, rolling, adaptive cycling, and wheelchair usage, such as car-free days and bike parades.

Program Recommendations:

- Establish a “Mobility for All” program to oversee initiatives aimed at improving access to bikes, scooters, and wheelchairs.
- Develop a “Green Wheels” program to provide low-cost electric bikes and scooters to residents and community members.

Note from SFMTA: Implementation of these recommendations will require collaboration with multiple agencies outside of SFMTA, including DPW and SF Planning, to assess and update existing policy and priorities, as well as identify funding and staff resources for programs and infrastructure improvements. Coordinated outreach with property owners is needed to maintain accessible sidewalk conditions. Immediate next steps would include working toward a “Mobility for All” program to coordinate bike, scooter, and mobility device access and support the remaining, related initiatives. For expanding bike and scooter parking, immediate next steps include looking into expanding city-provided device parking (racks, hangers, etc.) for short-term and long-term uses, with a focus on expanding parking for business/commercial uses. Bike parking programs should include low-income discount programs and community-relevant promotion of those programs.

④ Lack of Public Space

Goal:

- Expand and enhance public spaces to improve the quality of life, health, and community cohesion in the neighborhood.

Objectives:

- Increase the availability of public spaces for relaxation, recreation, and socialization.
- Improve access to green spaces to support physical and mental health.
- Foster social interaction and community building through well-designed public spaces.
- Enhance the environmental quality of the neighborhood through green space development.
- Support the local economy by creating attractive and accessible public spaces.
- Ensure that public spaces are equitable and accessible to all residents.

Policies:

- Prioritize the development of new public spaces and the improvement of existing ones.
- Integrate public space planning with health, environmental, and economic goals.
- Ensure that public spaces are designed to be inclusive and accessible to all.

Actions:

- **Impact on Quality of Life:**
 - Identify underutilized areas for potential public space development, such as vacant lots, rooftops, or low/no volume streets, such as Elm Alley.
 - Partner with local organizations to create pop-up parks and temporary public spaces, such as the Golden Gate Greenway.
- **Health Implications:**
 - Develop additional small parks and green spaces in the neighborhood to provide residents with access to nature.
 - Promote programs that encourage outdoor exercise and recreational activities in public spaces.
- **Social Interaction:**
 - Design public spaces that encourage social interaction, such as community gardens, plazas, and playgrounds.
 - Host regular community events in public spaces to bring residents and community members together and foster a sense of community.
- **Environmental Concerns:**
 - Implement urban greening initiatives, such as tree planting and green roofs, to enhance environmental quality.
 - Incorporate sustainable design practices in all new public space developments.
- **Economic Impact:**
 - Develop public spaces that support local businesses by attracting visitors and increasing foot, biking and rolling traffic.
 - Promote the economic benefits of public spaces to potential investors and developers.
- **Equity and Accessibility:**
 - Ensure that all public spaces are ADA-compliant and accessible to people with disabilities.
 - Design public spaces that are welcoming and safe for all residents and community members, regardless of income or background.

Note from SFMTA: Implementation of these recommendations will need to be initiated by SF Planning. There are considerable factors that will determine the feasibility of creating new public spaces, such as development opportunities and market conditions, as well as availability of funding for improvements and programming. Collaboration with DPW and SFMTA will optimize design and activation for access, safety and overall community benefit. Next steps will include ongoing coordination with SF Planning to create new and enhanced public spaces.

⑤ Displacement & Gentrification

Goal:

- Prevent displacement and preserve the affordability and cultural diversity of the neighborhood while promoting sustainable transportation options.

Objectives:

- Preserve affordable housing in the neighborhood.
- Prevent the displacement of historic residents, businesses and organizations.
- Ensure that transportation improvements do not contribute to displacement.

Policies:

- Implement measures to protect and expand affordable housing in tandem with transportation improvements.
- Promote community-led development to ensure that residents and community members have a say in changes to the neighborhood.
- Monitor the impact of transportation projects on housing costs and displacement.

Actions:

- **Affordable Housing Preservation:**
 - Implement policies that tie transportation improvements to the preservation of affordable housing.
 - Offer tax incentives and grants to landlords who maintain affordable rent levels.
- **Displacement:**
 - Support small businesses with grants and resources to help them adapt to neighborhood changes.
 - Establish a neighborhood stabilization fund to assist residents and businesses facing displacement pressures.

Program Recommendations:

- Create a “Stay in Place” program to provide resources and support to residents and small businesses at risk of displacement.
- Develop a “Community Land Trust” to preserve affordable housing and protect against displacement and over gentrification.

Note from SFMTA: Implementation of these recommendations will need to be initiated by SF Planning, in collaboration with SFMTA to assess and update policy to prioritize affordability and anti-displacement in housing development and transportation improvements. Next steps will include ongoing coordination with SF Planning to foster community-led planning and engagement to address these issues.

NEXT STEPS

To ensure the successful implementation of the *San Francisco Biking and Rolling: Active Communities Plan* in the Tenderloin, the following next steps are recommended:

Establish a Dedicated Implementation Task Force

- a. **Create a Multi-Stakeholder Task Force** — Form a group composed of community leaders, local businesses and organizations, city agencies, and transportation experts to oversee the implementation of the BRP in the Tenderloin. The SF Planning Departments working group for the Tenderloin Community Action Plan and/or the TL Traffic Safety Task Force may be good alternatives to creating an additional taskforce.
- b. **Set Clear Benchmarks** — Develop specific, measurable goals and timelines for the implementation of each recommendation in the plan, ensuring transparency and accountability.
- c. **Regular Monitoring and Reporting** — Establish a system for ongoing monitoring of progress, with regular reports to the community and adjustments to strategies as needed.

Secure Funding and Resources

- d. **Identify Funding Sources** — Work with city, state, and federal agencies, as well as private partners, to secure the necessary funding for the implementation of the plan. This includes grants, public-private partnerships, and other innovative financing mechanisms.
- e. **Allocate Resources** — Ensure that resources are allocated equitably, with a focus on the most vulnerable populations in the Tenderloin, including youth, seniors, people with disabilities, and low-income residents.

Pilot and Phased Implementation

- f. **Initiate Pilot Projects** — Begin with pilot projects in key areas to test the feasibility and impact of proposed interventions, such as dedicated bike lanes, public space enhancements, and parking solutions.
- g. **Phased Rollout** — Implement the plan in phases, starting with high-priority actions that address the most pressing safety and accessibility concerns. This phased approach will allow for adjustments based on real-time feedback and outcomes.

Ongoing Community Engagement and Education

- h. **Maintain Open Communication Channels** — Continue engaging with the community throughout the implementation process, ensuring that residents are informed and involved in decision-making.
- i. **Launch Education Campaigns** — Implement community education programs for all ages to promote safe biking, rolling, and walking practices, as well as to raise awareness about the benefits of the BRP.
- j. **Organize Community Events** — Host regular events to celebrate progress, gather feedback, and foster a strong biking and rolling culture in the Tenderloin.

Evaluation and Adaptation

- k. **Conduct Regular Evaluations** — Regularly assess the effectiveness of the implemented initiatives, using data and community feedback to measure progress toward the BRP's goals.
- l. **Adapt Strategies as Needed** — Be prepared to adjust the plan based on what is learned during the implementation phase, ensuring that it remains responsive to the needs of the Tenderloin community.



By following these next steps, the Tenderloin can achieve a safer, more accessible, and inclusive environment for all residents and community members, ensuring that the benefits of biking and rolling are equitably shared across the community.

Special thanks to:

Jaime Vioria from Tenderloin Neighborhood Development Corporation, Claire Amable and Rachel Clyde from San Francisco Bicycle Coalition, Jodie Medeiros and Evan Oravec from Walk San Francisco, and to the hundreds of residents and community members who shared their experiences, needs, and desires for a safer and more accessible transportation network in the Tenderloin.

Thank you!

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Rolling: Active Communities Plan



FILLMORE BIKING & ROLLING

Community Action Plan

NCLF



New Community
LEADERSHIP FOUNDATION



San Francisco
County Transportation
Authority



Community Context

History of Fillmore

The Fillmore District in San Francisco was once a thriving, connected, complete community. It was home to many ethnic groups and people of color that were excluded from other San Francisco neighborhoods. The Fillmore grew into a vibrant mixed-income Black community with a huge cultural impact, sometimes called the “Harlem of the West”.

Beginning in the 1950’s, the Fillmore was profoundly changed by urban renewal projects and the transformation of Geary Boulevard into a grade-separated expressway. The project widened Geary Boulevard to facilitate the commute of higher-income, largely white residents from west side San Francisco neighborhoods to downtown. The project displaced 8,000 primarily Black and Japanese residents; bulldozed 108 acres of residential and commercial land; and destroyed hundreds of Fillmore businesses.

In total, Urban Renewal projects bulldozed 40 square blocks of the historic neighborhood, destroying thousands of Black-owned businesses and displacing tens of thousands of residents. New, large, single-use developments and superblocks replaced entire walkable, mixed-use neighborhoods. Streets that had been community assets and gathering places were transformed into high-speed roadways that divided the neighborhood and made it more difficult and less safe to walk or bike in the Fillmore.

Current Neighborhood Profile

Community and Cultural Vibrance

Over the last two decades, the Fillmore has demonstrated remarkable resilience, preserving its rich cultural identity while adapting to change. The neighborhood has seen a renewed appreciation for its history through family and community-focused events like Juneteenth celebrations, local fashion shows, and beautification initiatives that bring neighbors together. Institutions such as Gateway High School have also contributed to a safer environment for young people, offering extended school hours and programs that support their growth and engagement.



The Fillmore remains a hub of connection and community. One of the joys of life here is the ability to run into family and friends while walking through the neighborhood, whether chatting at a corner store, stopping at a coffee shop, or greeting familiar faces along the way. Although independent business ownership is not as vibrant as it once was, the Fillmore's businesses continue to thrive, supported by local residents alongside visitors and former residents who travel by bus or car to attend church, work, or school in the area. From the brick-and-mortar establishments along the Fillmore Corridor to smaller enterprises on side streets and cottage-based home businesses, the neighborhood remains a vital hub of economic and cultural activity.



In recent years, the Fillmore has also become a space where long-time residents and newer neighbors, are coming together. Collaborative efforts such as business projects and community clean-up initiatives have strengthened bonds across diverse groups, fostering a shared sense of purpose. Supported by a vibrant network of nonprofit organizations offering a wide array of services, the Fillmore continues to thrive as a dynamic and inclusive neighborhood. From memorable live music performances to family gatherings at Kimbell Park, the Fillmore's enduring pride and sense of connection shine brightly, reflecting its evolving traditions and the unwavering commitment of its community members to honor its legacy.

Development and Disconnect

Recognizing how Urban Renewal had damaged and disconnected the Fillmore, the Redevelopment Agency, Board of Supervisors, and Mayor of San Francisco made promises to rebuild the community for those harmed. They have neglected these promises for decades. Instead, new developments have catered to newcomers, leading to significant displacement and gentrification.

Recent transportation and development projects, including biking infrastructure, have not addressed historic harms and inequities, but rather seem to primarily support the transportation needs of new residents. Delays on key projects and lack of progress on stated racial equity goals have eroded community trust in the SFMTA.

Street beautification and traffic calming initiatives have benefited gentrified neighborhoods, such as NOPA, Alamo Square, and Hayes Valley, that were once part of the historic Fillmore community. In the meantime, the core of the Fillmore district—where many children, seniors, and Black residents live—is dominated by high-speed one-way thoroughfares.

Fillmore Community Action Plan Introduction

Community Partnership

New Community Leadership Foundation (NCLF) is a community-based organization whose mission is to restore the economic health and vigor of disenfranchised minority communities. NCLF provides technical assistance and capacity-building to non-profit organizations; offers business-support services to small businesses and entrepreneurs; and supports projects and career pathways for artists. Through each of these programs, NCLF acknowledges and seeks to remedy the legacy of racism and disinvestment that have hurt community wealth and health.

NCLF, in partnership with Honey Art Studio, organized the Fillmore neighborhood to contribute to the 2025 Biking and Rolling Plan. They worked to ensure that residents—particularly those harmed by past transportation and land use policies—had a significant role in shaping and implementing the Plan’s programs, projects, and initiatives.

Importance of Community Action Plan

To date, transportation initiatives in the Fillmore District have failed to repair past harms. They have prioritized new residents’ needs over those of longstanding community members. To address these historic and present-day transportation inequities, the Fillmore needs a commitment to inclusive, community-driven planning. However, the SFMTA’s *Racial Equity Progress Report for 2021* and the 2017 *Western Addition Community Based Transportation Plan (CBTP)* both reveal significant missed opportunities in advancing racial equity and community engagement.

Fillmore community members invested their time and energy into the Western Addition CBTP, which included recommendations for very-high-traffic intersections impacting neighborhood seniors and children. These recommendations have yet to be addressed. Instead, other infrastructure was installed that largely caters to riders passing through the Fillmore (for example, on “The Wiggle” bike route). Delays in implementing community priority projects from the CBTP have eroded community trust and support.



The agency's 2021 *Racial Equity Progress Report* identified unfair disciplinary practices for African American workers within SFMTA, highlighting the need for systemic changes at the agency. These changes will require that the agency work with grassroots social justice groups and organizations to create a more inclusive environment and improve leadership representation.

The result of an inclusive, community-driven process, this 2025 Community Action Plan has community buy-in and includes specific recommendations for addressing historical and current transportation inequities, building off of the work done in the 2017 CBTP. We hope that SFMTA's Biking and Rolling Plan, which supports this document, will serve as a platform to implement these positive changes.

Process and Development

The Community Engagement process for the Fillmore Biking and Rolling Draft Plan was a comprehensive effort spanning almost two years, reaching hundreds of residents through various meetings and events. Led by the New Community Leadership Foundation (NCLF) in collaboration with Honey Art Studio, this initiative aimed to ensure that residents, particularly those harmed by past transportation and land use policies, have a significant role in shaping and implementing the Programs, Projects, and Initiatives. This process was crucial for identifying key priorities and ensuring the plan reflects the community's needs and desires.



Transportation Today

Neighborhood Transportation Conditions

The current approach to transportation planning in the Fillmore makes many residents feel like strangers in their own neighborhood. Many longtime, low-income, and Black residents feel that new transportation infrastructure (like bike lanes and Slow Streets) and policies (like parking enforcement practices) do not serve their needs. They also feel alienated from the broader bike culture and conversation in San Francisco.

Walkability

Within the Fillmore, walkability is influenced by a mix of historical and contemporary challenges. The legacy of Urban Renewal has left its mark on the neighborhood, replacing what were once vibrant, business-filled blocks with parking lots, office spaces, and underutilized commercial areas. This change has diminished the lively street culture that previously made walking in the Fillmore a unique experience. While community members generally feel safe walking in the neighborhood, concerns persist for children and young people due to issues such as community violence and safety challenges around traffic. Fast-moving cars on streets like Geary Boulevard and Webster Street, along with poor lighting in areas such as Eddy Street, remain significant barriers for families and parents. Despite the short distances involved, many residents choose to drive within the neighborhood rather than walk, reflecting broader challenges to walkability.

For those who prefer walking for exercise or enrichment, many choose routes on the outskirts of the Fillmore proper, such as Divisadero Street or Lower Pacific Heights, where the streets and commercial areas are perceived as more vibrant and engaging. The quality of sidewalks and curb access within the Fillmore itself is another critical issue, especially for seniors and individuals with disabilities. Participants in our focus group reported uneven bricks and poorly maintained sidewalks that pose tripping hazards, particularly on Fillmore Street between Geary and Fulton or on streets like Steiner and Ellis. For many, walking in the Fillmore is driven by necessity—trips to corner stores, bus stops or coffee shops—rather than leisure



or community engagement. While some areas like Alamo Square and Divisadero feel cleaner and safer, Fillmore residents long for the thriving, community-oriented streetscape of the past, where music, local businesses, and vibrant street life encouraged connection. To revitalize walkability, participants suggested better sidewalk maintenance, enhanced lighting, and community-driven strategies such as fostering local businesses and creating pedestrian-friendly zones that reflect the neighborhood's rich history and culture.

Muni and Public Transit

The Fillmore is well-connected by an extensive transit network, with 11 Muni bus routes serving the neighborhood, including the 22 Fillmore, 24 Divisadero, 38/38R Geary, and 7 Haight lines. Together, these routes carry approximately 125,000 riders daily, linking the Fillmore to destinations across the city. Peak bus service frequency ranges from 6 to 20 minutes, averaging 14 minutes overall. High-ridership lines like the 22 Fillmore and 38R Geary provide critical connections to grocery stores, schools, and recreational destinations, while others like the 24 Divisadero enable access to swimming pools, meat markets, and Bayview-Hunters Point. This robust transit network supports the daily needs of residents and enhances mobility throughout the city.

The 5 Fulton, 31 Balboa, and 38 Geary are three critical east-west bus lines serving the Fillmore. Spaced evenly across a well-distributed 9-block stretch, they play an essential role in supporting the independence of older adults, particularly as the Fillmore hosts approximately a dozen senior centers. The 31 Balboa, located centrally among these routes, is especially vital for seniors who may not be able to walk the extra blocks comfortably or sustainably. When the 31 line was at risk of being permanently cut, residents rallied to emphasize how its loss would have stripped many older adults of their independence. Keeping these bus lines open is essential to ensuring equitable access for all residents, particularly those who rely on transit for daily activities.

In addition to its utility, the transit system plays a vital role in maintaining the Fillmore's sense of community. For many residents, buses are not only a mode of transportation but a means to stay connected to schools, workplaces, churches, and local businesses. Routes like the 43 Masonic and 31 Balboa also connect residents to key cultural and recreational areas, such as the Presidio and downtown shopping districts. The enduring importance of transit in the Fillmore highlights the need for ongoing investment and equitable service delivery, ensuring that this vital infrastructure continues to meet the needs of all residents, from seniors and families to students and commuters.

Parking in Fillmore

The Fillmore neighborhood has limited street parking, and it is in high demand. The lack of parking and safe drop-off and pickup zones particularly impacts residents who are dependent on their cars, including seniors and families. Projects that disrupt the availability of parking can further exacerbate this issue and can be a disservice to car-dependent Fillmore residents. The neighborhood also experiences a high rate of parking citations compared to other neighborhoods.

Bike Infrastructure

Current efforts to reduce car dependency often focus on new bike infrastructure. But many members in the Fillmore community see bike infrastructure as benefitting primarily younger, newer residents, and conflicting with the needs of local families, older adults, and low-income individuals. They also feel that external planners, advocates, and residents resent them for not embracing new biking initiatives due to a lack of understanding of their history.



Behavior of People Riding Bikes and Scooters

Fillmore residents who get around on foot have concerns about interactions with people bicycling and riding scooters. Residents have specific safety concerns about people on bikes and scooters riding on sidewalks and passing through drop-off/pick-up zones, putting pedestrians—and particularly seniors—at risk. Disrespectful rider behavior and poor cyclist etiquette make the distance between the bike community and neighborhood residents even greater.

Slow Streets

The implementation of Slow Streets around the Fillmore/Western Addition area is an example of a missed opportunity and a misalignment with community priorities. Residents feel that the nearby Slow Streets were implemented without consulting the community and disproportionately benefit newer residents. Many long-time residents were not aware that Slow Streets were being installed, what they mean for day-to-day travel, and why and who they benefit.

There are no Slow Streets within the boundaries of the Fillmore neighborhood. The nearest are on the outskirts of the Fillmore, in parts of Western Addition and NOPA that are home to newer residents of significantly different demographics. But Fillmore residents feel that even the adjacent Slow Streets – such as Golden Gate Avenue – are not reflective of Black and other long-time residents' needs. The facilities seem to primarily benefit bike riders passing through the Fillmore to get downtown. In addition, the Fell Street project closed a critical street and impacted parking, which was disruptive for parents and families who use Fell Street to get their kids to school, go to work, or run other errands. Rather than creating more connectivity for Fillmore residents, they acted as a barrier.

With more innovative and inclusive community engagement, even car-dependent Fillmore residents may have welcomed a local Slow Streets program. Had the City engaged local youth and families in the area (including low-income residents in housing projects a few blocks away), there may have been opportunities to build a community-driven, locally celebrated Slow Streets program that reflected the people of the Fillmore.

Goals and Guiding Principles

Guiding Principles

“Untokening 1.0: Principles of Mobility Justice,” a document that outlines strategies for achieving mobility justice, reflects the sentiments of many community members and provides a framework for moving forward. This document emphasizes addressing transportation-related injustices faced by marginalized communities. Key principles that can guide planning and investment in the Fillmore District include:

- **Historical Context and Harm:** Seek to repair harm rather than erase history, acknowledging how these communities have survived despite systemic neglect.
- **People Over Profit:** Prioritize the community’s lived experiences and aspirations over economic efficiency and development.
- **Structural Barriers:** Consider investments beyond street infrastructure, addressing wider issues like policing, bus schedules, fares, and housing affordability.
- **Local Needs and Solutions:** Discard “best practices” in favor of grassroots approaches that respond to local needs and ensure language justice and information access.

Plan Goals

The Fillmore CAP Goals were derived from engagement with the Fillmore community for the Biking and Rolling Plan.

- **Rebuild community trust** and support by working with grassroots neighborhood groups to implement actions that address longstanding issues and demonstrate commitment to the community’s needs.
- **Take quick action** on the priorities and community programs highlighted in this document to avoid further missed opportunities.
- **Consider the needs of older residents and families** and provide inclusive and safe streets, including sidewalks and drop-off/pick-up zones.
- **Protect commerce and accessible parking** when adding bike facilities.
- **Address street parking challenges for residents**, including limited capacity and high frequency of citations.
- **Foster respect between SFMTA, cyclists, and Fillmore community members** and bridge the gap between the bike community and neighborhood residents.
- **Maintain the current street infrastructure** while developing long-term plans for the next 5 to 15 years to gradually transition the community towards increased biking.

Policies and Actions

Policy

1. Address Past Harms and Restore Trust Through Community Engagement and Follow-through

- a. Acknowledge past harms, including the history of gentrification and displacement in planning efforts, and the impact on current biking conditions.
- b. Prioritize future actions that undo the damage caused by past initiatives and policies.
- c. Collaborate with grassroots social justice groups to enhance leadership and representation due to the lack of Black staff and community representation within SFMTA.
- d. Partner with local organizations such as Fillmore Collaborative, New Community Leadership Foundation, Mo Magic, Japantown Task Force, and We Are One to strengthen community ties.
- e. Offer compensation for community members' time and their contributions to community planning.
- f. Organize events with SFMTA staff and Fillmore community members, such as:
 - i. a brainstorming session with SFMTA around this draft plan.
 - ii. a neighborhood walk-through for short and long-term planning, including milestones for bike infrastructure.
 - iii. a community bike ride to gather further input and assess the proposed bike routes and infrastructure.
- g. Maintain ongoing communication and engagement between SFMTA and the Fillmore community to refine and implement the plan effectively, including with local committees.
- h. Be transparent about the decision-making process for the Biking and Rolling Plan.
 - i. Demonstrate accountability and take early-action opportunities.

Note from the SFMTA: Next steps will include ongoing coordination with community organizations and community members to continue to build more integrated working relationships, based on frequent, transparent communication and mutually established goals and expectations that acknowledge past harm by planning initiatives.

2. Create an Authentic Bike Culture with the Fillmore Community

a. Foster a cultural shift towards biking within the community through an equitable planning process and by gradually introducing biking initiatives, providing ample time for adaptation and support.

b. Address the disconnection between the bike community neighborhood residents acknowledge that bike lanes primarily desired newer, younger residents.

c. Develop a messaging campaign change the narrative, emphasizing that biking is for everyone, including families, to foster a sense community ownership.



d. Identify biking and rolling projects that address specific needs of Fillmore residents, including health and connectivity, and better integrate the neighborhood into the citywide network.

e. Address inclusion concerns with Slow Streets implementation, adding cultural context and improving neighborhood access.

f. Develop a community implementation and branding plan to be included in this document and establish a presence on social media and in local newspapers like the Sun Reporter and Bayview.

g. Address the negative behavior of some cyclists and enforce rules similar to those for drivers.

h. Launch awareness campaigns led by community-based organizations to encourage respectful behavior from cyclists.

i. Ensure equal enforcement of traffic rules for both cyclists and drivers.

Note from the SFMTA: Next steps will include assessment of planning processes to more fully integrate issues of equity, inclusivity, and neighborhood/cultural context into engagement, communications, marketing, and overall outcomes of active transportation related projects. Changes in enforcement policy need to be initiated by SFPD. SFMTA can coordinate with SFPD to help develop more comprehensive cultural understanding around biking and vehicle rule enforcement.



3. Gradually Add Biking and Rolling Infrastructure Through Community-Supported Projects

- a. Recognize that bike infrastructure is not a comprehensive solution and should be implemented thoughtfully and at the appropriate time, without being rushed.
- b. Identify biking and rolling projects that address and serve specific needs of Fillmore residents, including health and connectivity, and better integrate the neighborhood into the city-wide network.
- c. Balance the need for bike facilities with the limited roadway space and competing interests.
- d. Consider the needs of residents, especially families, older adults and low-income individuals, in transportation planning, and ensure biking and rolling infrastructure designs are family-friendly.
- e. Ensure bike facilities do not negatively impact commerce and parking accessibility.
- f. Ensure bike lanes do not interfere with safe drop-off and pick-up zones, especially in areas with many seniors.
- g. Explore innovative ways to retrofit existing intersections to reduce conflicts between cyclists and drivers. Utilize current infrastructure to enhance safety without impacting parking availability or creating additional traffic congestion.
- h. Expand bike and scooter parking and charging facilities by utilizing existing spaces creatively. Ensure that these enhancements do not reduce parking spaces or increase traffic congestion.
- i. Explore the expansion of bike signals to facilitate movements, particularly left turns, without creating congestion or slowing down traffic flow. This approach aims to improve safety and efficiency for cyclists.
- j. Work to explore and incorporate new ideas and technologies proposed by community members (such as items like Life Lights).

Note from the SFMTA: Next steps will include assessment of planning processes to include more comprehensive, holistic approaches to planning of active transportation related projects that more fully consider cultural and neighborhood context in design and implementation. More inclusive outreach and engagement, described in the previous policy recommendation, will be a fundamental step in this effort.

4. Address High-Priority Neighborhood Mobility Needs Including Parking

- a. Prioritize safety on the roads and address concerns about scooters on sidewalks.
- b. Address the challenges of street parking in the Fillmore, including the high frequency of tickets and limited availability.
- c. Avoid removing more parking spaces and consider the needs of older residents and families.
- d. Provide assistance with obtaining residential parking permits or discounts to support local residents. This initiative aims to simplify the process and reduce costs for community members.
- e. Ensure equitable enforcement of parking regulations across neighborhoods.
- f. Review the current street cleaning schedule to ensure it is equitable and fair to local residents.
- g. Explore options for vehicle parking facilities or shared parking programs to alleviate street parking burdens.

Note from the SFTMA: Addressing scooter issues will require coordination with SFPD and private scooter companies to update policy on scooter use and enforcement. Issues of vehicle parking and enforcement in the Fillmore could be evaluated through a comprehensive curb management project to assess holistic solutions. Next steps would include developing a project proposal to understand scope and costs, and to identify staff resources and funding to fulfill project needs.

Program Recommendations

- a. Support authentic local and youth bike culture with programs that promote scraper bikes, lowrider bikes, and bike shows.
- b. Engage high schoolers and youth in street planning and biking activities.
- c. Create programs to teach bike riding and maintenance skills, like bike fix-it events, and proper helmet fit, especially for youth.
- d. Support existing programs like Gateway Middle School's after-school bike repair and explore partnerships with local organizations.
- e. Organize community bike tune-up and bike ride events paired with cultural programming such as the Juneteenth parade.
- f. Establish a Bike Hub: Create a physical location that offers bike workshops, bike and scooter rental stations (Lift, Lime, BayWheels), bike purchases, bike repairs, and more.
- g. Increase accessibility and affordability of bikes, for example rebate purchase programs or subsidies for bikes and scooters and bike giveaways.
- h. Create incentives for riding to work or school, such as offering a \$25 gift card for first-time riders.
- i. Implement parking incentives for individuals who drive into the city and complete the second leg of their trip by bike. This support encourages multimodal transportation and reduces inner-city congestion.
- j. Educate the community on biking's health benefits. Highlight anxiety reduction, wellness promotion, and healing.



Note from the SFMTA: Implementation of these policy and program recommendations will require collaboration with multiple agencies outside of SFMTA, including DPW, SF Planning, and others to assess and update existing policy and program priorities, as well as identify funding and staff resources for programs. Immediate next steps would include developing a Fillmore-specific community working group to establish community priorities, ensure new and existing programs incorporate and support local Fillmore culture and community member needs, and work towards incrementally building a community-driven culture of biking.

Key Connections and Roadways

Important Corridors

- a. Build on existing bike routes like Page Street and The Wiggle for better network connections.
- b. Initiate an inclusive planning process to explore a bike lane on Golden Gate Avenue, connecting Fillmore residents to downtown. This wide street can possibly add a link to the existing protected bike lane in the Tenderloin, creating a continuous route to car-free Market Street.
- c. There is an interest in making Turk Street safer for pedestrians crossing the street, but is too narrow to accommodate bike lanes. Residents and families depend on using this street to drive into the neighborhood, and we do not recommend exploring changes to this street at this time.
- d. Post and Sutter Streets are vital community and commercial corridors for the Japantown area. Maintaining the current infrastructure is essential, with a priority on protecting existing parking to support local businesses and residents.
- e. Address negative feedback from Japantown merchants and residents regarding street changes on Post St and Sutter St and focus on alternative routes like Bush St and Pine St.

Note from the SFMTA: At the present time, no funding is identified or allocated for these recommended improvements. Implementation will require coordination with DPW and other city agencies to identify funding to prioritize infrastructure improvements. Next steps could include initial planning analysis and assessment of potential treatments to understand project scope and pursue funding sources.



SOMA BIKING & ROLLING

Community Action Plan



Introduction

SOMA Pilipinas as community partner

SOMA Pilipinas, the Filipino Cultural Heritage District, was formally recognized in 2016 by the City of San Francisco, and is also recognized by the state as a California Cultural District. SOMA Pilipinas was created to address gentrification and displacement impacts to the Filipino community in the South of Market, including residents, community-based organizations, and small businesses. The Cultural District focuses on cultural celebration, community development, and economic and racial justice in the South of Market.



SOMA Pilipinas Community Outreach Coordinator Ate Tet (left) and Director Raquel Redondiez (right)

The Filipino community has been in San Francisco for over 120 years, impacting the cultural and economic landscape of the city. Many Filipinos settled in what became to be known as Manilatown, which existed along Kearney Street along the edge of Chinatown. Filipinos also settled in the South of Market neighborhood, exhibited by the establishment of the Gran Oriente Filipino Masonic fraternity in the 1920s. Following the devastating impacts of Urban Renewal and the demolition of Manilatown, seen especially in the struggle to save the I-Hotel, SOMA became one of the main homes of the Filipino community in San Francisco. Through successive waves of gentrification and displacement in SOMA through the first and second technology booms, Filipinos have continued to resist displacement and build a community in SOMA of schools, community-based service organizations, parks, small businesses, and affordable housing. The history of displacement of working-class communities in SOMA dates back to the pressures of Urban Renewal to remove working-class residents to create a corporate expansion of downtown, a struggle that has continued with the displacement pressures and policies of the city, technology corporations and real estate companies up to the present.

In order to ensure community-based planning, and to counteract the top down and corporate driven planning structures that have characterized planning in the South of Market, it is essential that working-class residents, tenants, and communities of color lead the process of change in their own neighborhood. As a community partner with SFMTA's Biking and Rolling Plan, we believe it is important that community members that are not historically engaged in this process are brought into the discussion to ensure voices of pedestrians, seniors, children, families, and people with disabilities are not left out. By including a broader representation of the SOMA community in decision making for the Biking and Rolling Plan, we can ultimately get a more meaningful and impactful plan in the South of Market.

South of Market Context

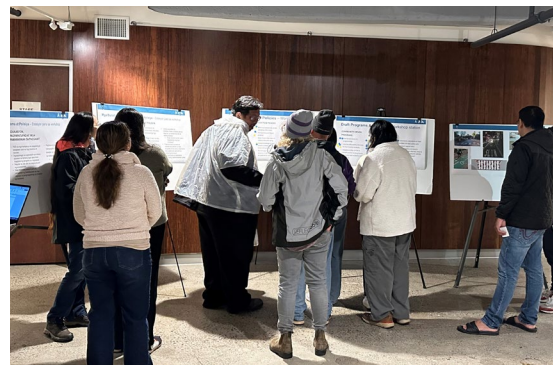
There are many conflicting issues when it comes to transportation in the South of Market. The South of Market is a neighborhood where families, seniors, and other residents live and walk, but from the perspective of drivers and many people using the active transportation network, SOMA is a thoroughfare to pass through as fast as possible. Also, as a high-density neighborhood in San Francisco, with acute levels of income inequality, SOMA faces challenges in regard to lack of open space, affordable housing, and the necessary level of services for residents, that have an impact on and are impacted by the active transportation network.

This results in numerous challenges including but not limited to pedestrian safety, recognition of SOMA as a neighborhood with families, children, youth, and seniors, evictions, displacement, and gentrification, intensive development, real estate speculation, stark income inequality, influxes of wealthy residents, and a history of non-inclusive top-down planning.

As such, the SOMA Biking and Rolling Community Action Plan must prioritize the needs of children, families, seniors, people with disabilities and working-class residents.

Process

SOMA Pilipinas held a series of five community meetings in 2023 and 2024, cumulatively attended by 125 community members, to direct the process of creating a SOMA community action plan within the citywide biking and rolling plan. These meetings focused on the topics of introduction to the plan, discussion of issues, concerns, and hopes, visioning solutions through policies, programs, and projects, and finalizing the SOMA community action plan. Community meetings included SOMA residents, workers, and visitors. SOMA Pilipinas did additional outreach at the SOMA Slow Streets event and the SFMOMA Community Day. Through this process, issues, concerns, ideas, and solutions were identified and incorporated directly into the SOMA Community Action Plan.



Areas of Focus and Concern

Several areas of focus came up during this process, including:

- Pedestrian safety in the face of electric scooters, bikes, and other modes of transportation riding on sidewalks
- Pedestrian safety in regard to crossing the street with high traffic volume and fast speeds of those using the active transportation network, short crossing times
- Barriers to using active transportation such as cost, affordability, and lack of space
- Accessibility as directly related to race and income
- Repairing damaged and low-quality sidewalks and bike lanes, including maintenance and cleaning, and increasing comfortability for pedestrians
- Prioritizing and supporting Slow Streets
- Needs of wheelchair and electric wheelchair users
- Transparency around input and progress in SFMTA planning projects, policies, and plans
- The need to reflect the cultural heritage and history of the Filipino community
- Ongoing construction that impedes pedestrian pathways and small businesses

The issue of pedestrian safety was one of the top recurring topics that we heard.

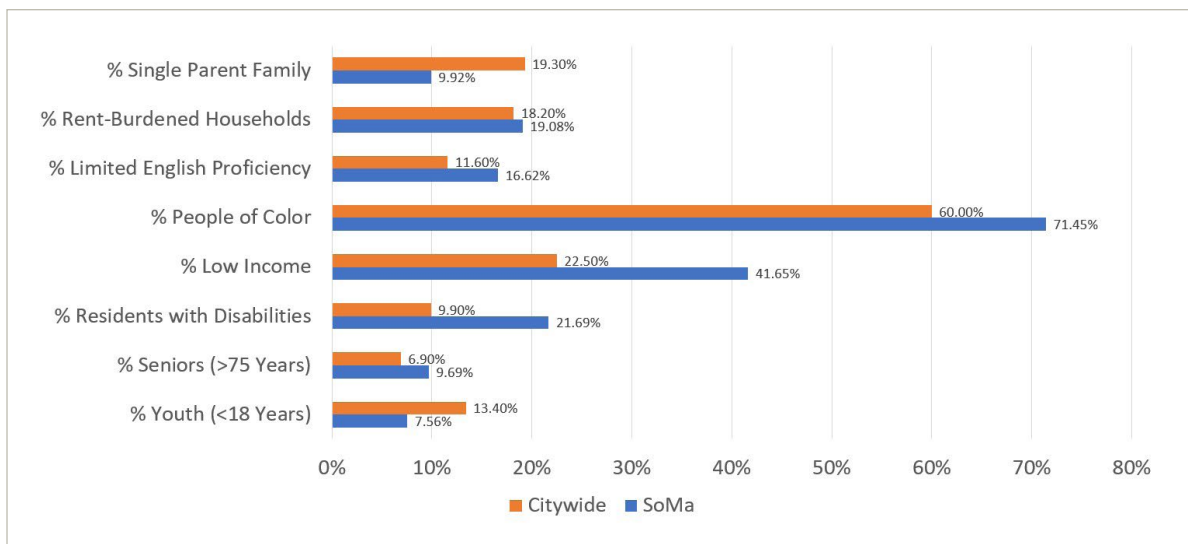


As a result, it is important that the Biking and Rolling Plan not just focus on people who use the active transportation network, but also people who do not use the network but are still impacted by it (i.e. pedestrians).

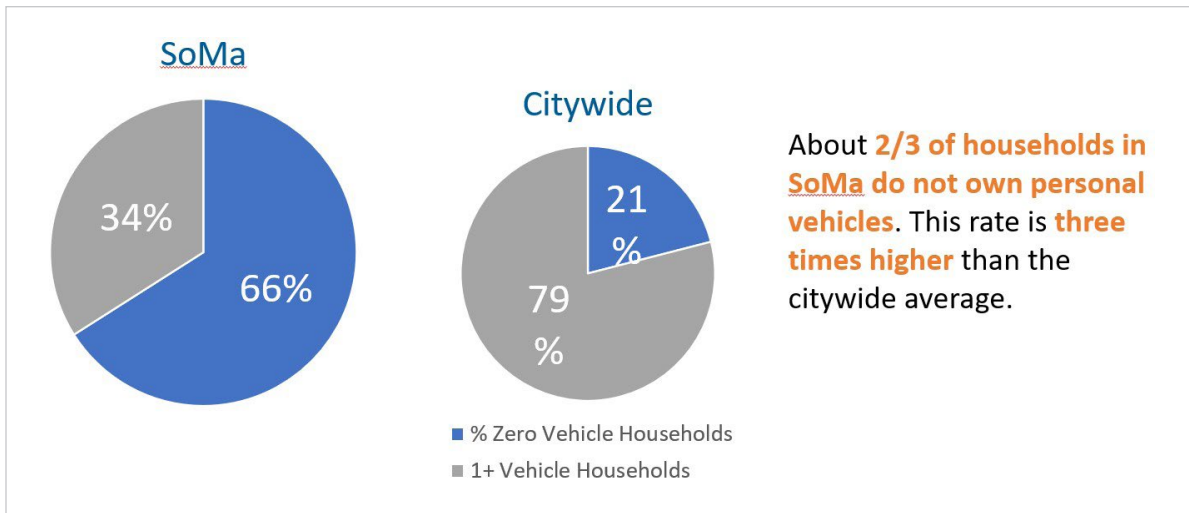
Existing Trends and Data in the South of Market

Existing trends and data in the South of Market related to biking and rolling points to a confirmation of the lived experience, issues, and concerns of residents, workers, and community members. The data presented below helps to express that and also points to several areas to address for the South of Market as it relates to biking and rolling. These include the following:

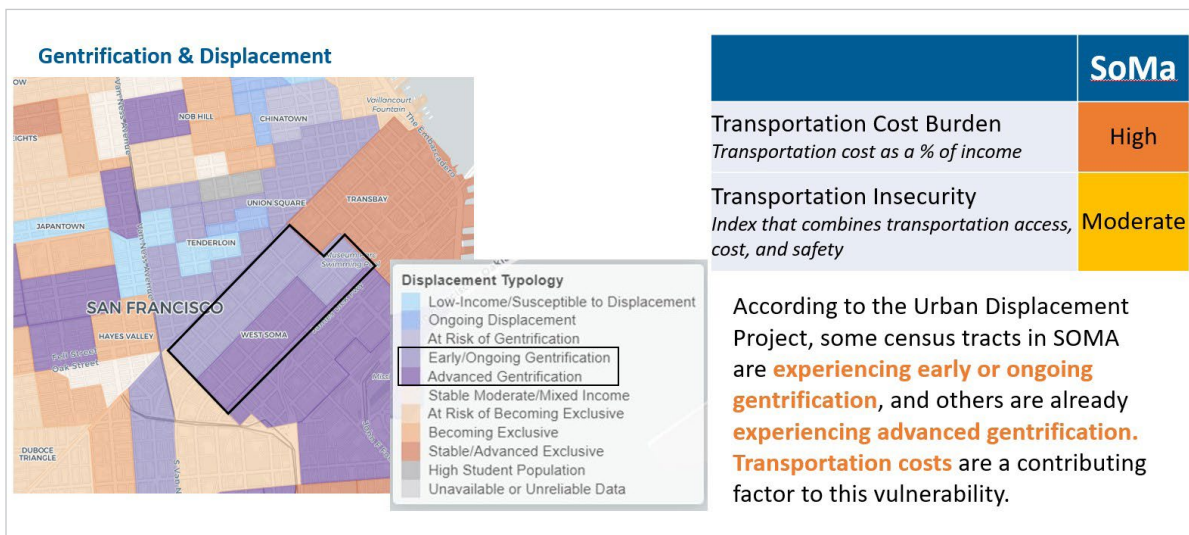
- 1) It is dangerous for bikers and pedestrians alike in many SOMA intersections,
- 2) there is a high volume of bike-share and scooter-share usage and citations for misuse,
- 3) biking and rolling in SOMA is experienced as less comfortable than citywide,
- 4) for those that responded to SFMTA's biking and rolling survey, using active transportation as a SOMA resident is less affordable compared to residents citywide,
- 5) compared to citywide, a much higher number of residents in SOMA commute by bike to work and a much lower number use bikes for leisure or exercise,
- 6) the majority of SOMA residents do not own a car (66%), while only 4% commute by bike (though this is higher than the citywide rate of 3%), indicating a high proportion of pedestrian and public transit commuters, and
- 7) a large proportion of SOMA is undergoing gentrification, and compared to citywide SOMA has a higher proportion of rent-burdened households, limited English proficiency, and a higher proportion of people of color, residents with disabilities, seniors, and low-income residents.



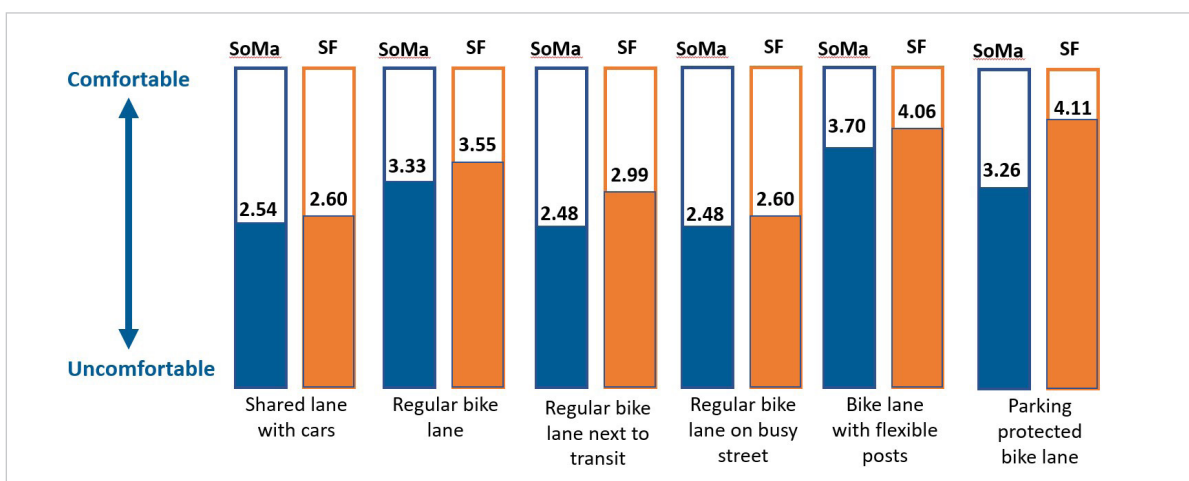
SOMA has a higher proportion of rent-burdened households, limited English proficiency. SOMA also has a higher proportion of people of color, residents with disabilities, seniors, and low-income residents.



The majority of SOMA residents do not own a car.



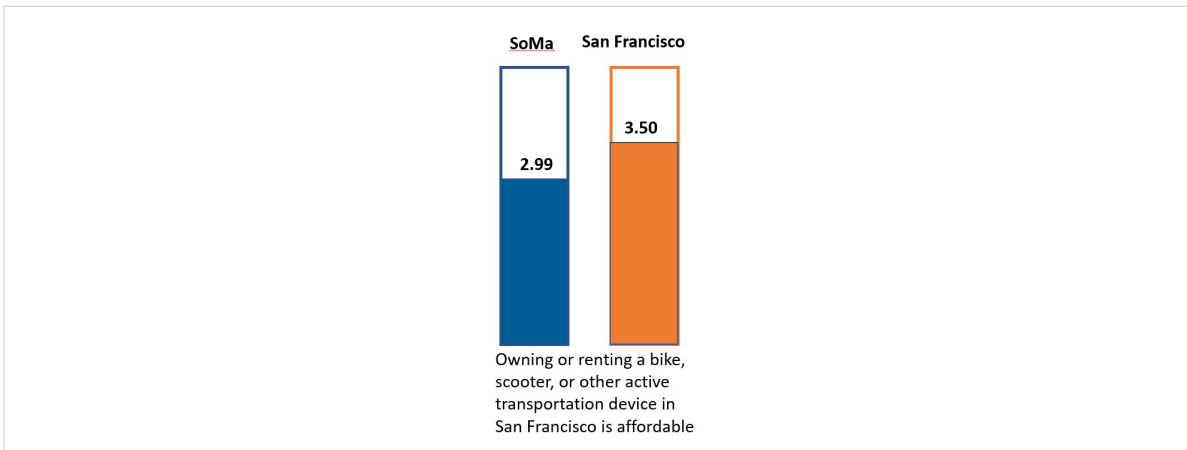
The UC Berkeley Urban Displacement Project identifies much of the South of Market as undergoing gentrification.



According to the SFMTA survey, people feel less comfortable biking in SOMA compared to citywide.



The generally low and medium bike comfort index in SOMA.



According to the SFMTA survey, people in SOMA are less able to afford active transportation.

I would use the Active Transportation Network to...	100 SoMa residents	1,000 San Francisco residents
To go to work	58%	38%
To go to school	18%	13%
To run errands	59%	37%
To go to social activities	47%	38%
To exercise or enjoy the outdoors	25%	38%
Some other purpose	0%	0%
I don't use the network	24%	30%

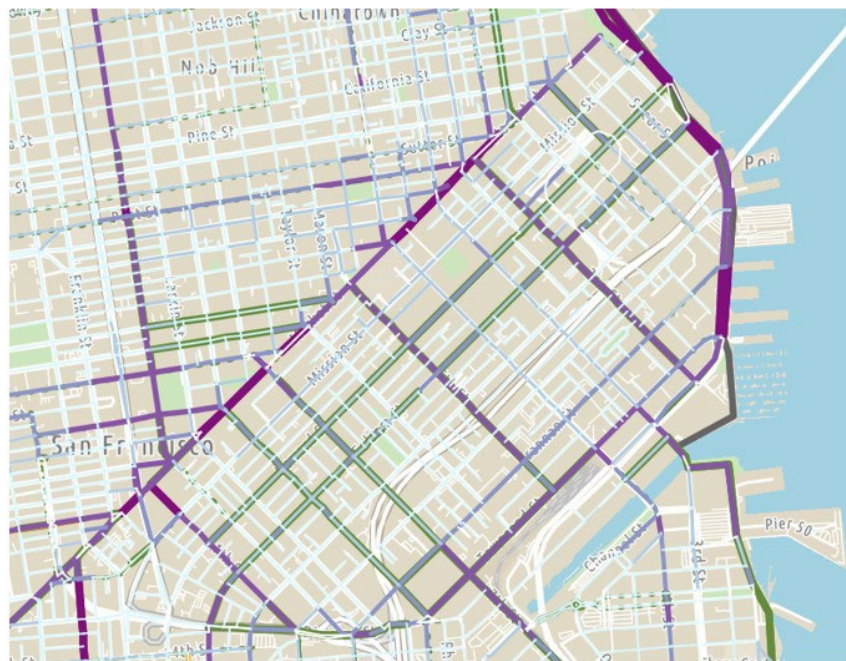
Compared to citywide, a much higher percentage of people surveyed would use the bike network to get to work and run errands, and a much lower percentage for leisure and exercise.

SoMa residents commute by bike at a higher rate than SF residents (4% vs 3%), but fewer of them are women (26% vs 31%)

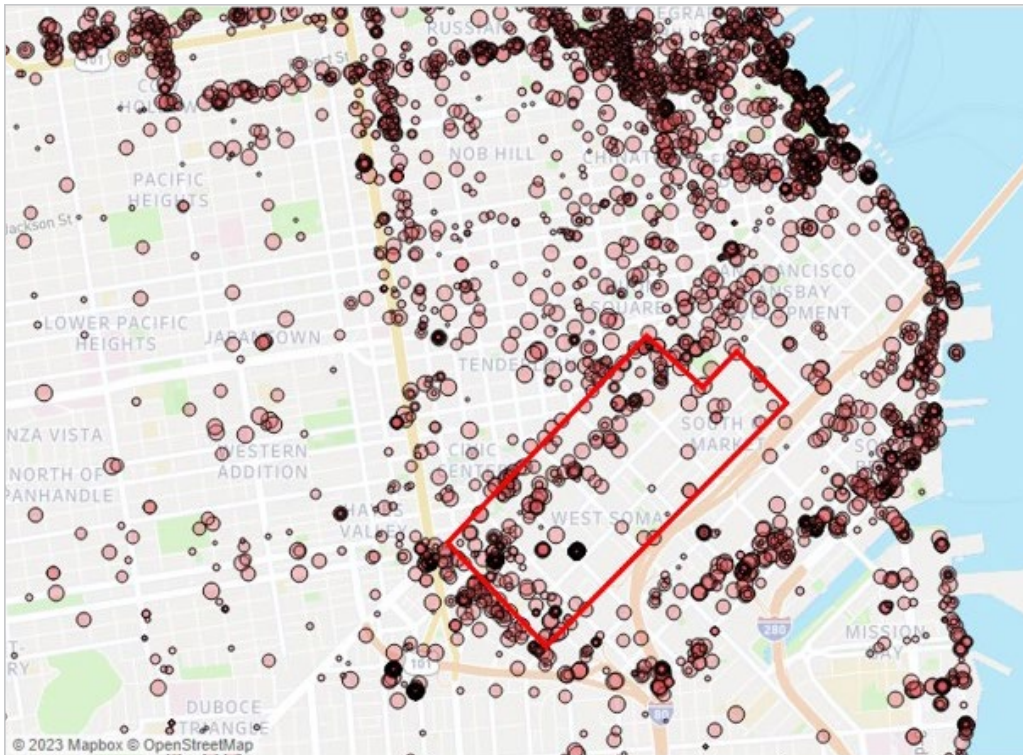


While a higher percentage of SOMA residents commute by bike (4%), SOMA in general has a much larger percentage of people who do not own a car (66%), indicating that there are many more neighborhood pedestrian and public transit commuters in SOMA compared to citywide.

SoMa bikeshare & scootershare trips at more than double the average daily rate citywide

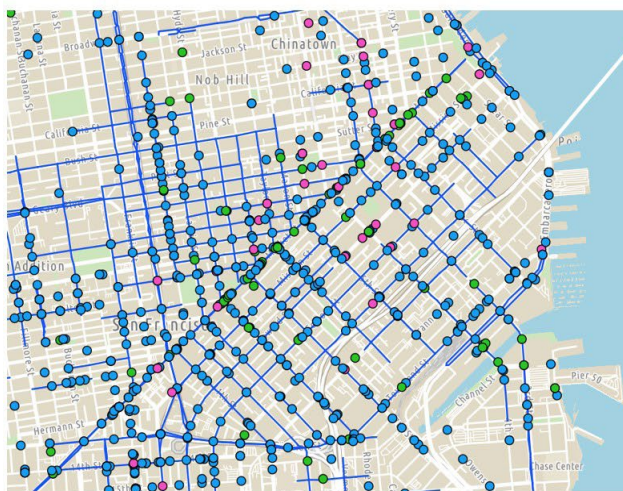


The high use of bike-share and scooter-share



Citywide scooter and bike citations - SOMA has a large share of citations compared to other parts of the city.

Reflecting Back: Traffic Safety



Since 2017, there have been **279** bike or scooter collisions in SoMA – **23** of them serious or fatal.

That's **more than 10%** of bike or scooter collisions citywide.

2017 - 2021 Crashes by Parties

- Bike-Car
- Bike-Pedestrian
- Solo-Bike

2022 High Injury Network

Policies, Programs, and Projects

Note from the SFMTA: Some of the policy, program, and infrastructure recommendations in this Community Action Plan are not within the jurisdiction of the SFMTA, requiring interagency coordination, identification of funding sources, and more thorough development and assessment prior to implementation. This document provides an overview of some of the limitations for each recommendation. This plan does not provide specific next steps for each recommendation but provides context and information that both community members and city staff can use to prioritize next steps and start to work through those issues.

Policy

Policy 1 (High Priority): Increase regulation of scooter-share and bike-share companies to prevent and stop riding on sidewalks and to address improper parking of devices.

- A) Increase regulation of scooter-shares and bike-shares that ride on sidewalks and/or are incorrectly parked after usage through penalizing the operating companies. This will be achieved by:
- 1) If the operating companies do not significantly decrease the number of scooter-share and bike-share riders riding on sidewalks and incorrectly parking devices after usage (measured through both citations and complaints, and regular audits by SFMTA), have SFMTA reduce the number of scooter-shares and bike-shares the private companies can operate through their permit by half every 6 months until they are in compliance and/or completely revoke their permit to operate in San Francisco if companies fail to comply.
 - 2) SFMTA will publicly share bi-annual updates on this process at the SFMTA Board of Directors.
- B) Conduct an initial study and explore potential requirements for scooter-share and bike-share operating companies to implement geofencing (i.e. ride-shares/bike-shares stop working when on sidewalk, ride-shares/bike-shares audibly tell riders to get off of sidewalk until they move) within one year. SFMTA will hold a public meeting at the SFMTA Board of Directors discussing the findings of the initial study.
- 1) Policy goals of implementing geofencing should be enforcement: If SFMTA deems that it is possible to implement some form of geofencing, SFMTA shall move forward with requiring private scooter-share and bike-share companies to implement geofencing within a reasonable timeframe (1-2 years); and, failure to implement geofencing by private companies (within the reasonably allowed timeframe) shall result in SFMTA reducing the number of scooters-shares and/or bike-shares the companies are allowed to operate by half every 6 months until they are in compliance, and/or the complete revocation of their permit to operate in San Francisco for failure to comply.

- C) Modify scooter-share parking requirements by requiring that all scooter-share companies have scooters parked by securing scooters to a bike-rack, sign pole, or meter pole using a tethered lock. Current parking requirements for scooter-share are very lax and easily allow for scooters to be incorrectly parked or end up falling into the pedestrian right of way.
- D) Modify bike-share parking requirements by requiring that all bike-share companies have bikes parked by parking bikes in a docking station, or by securing bikes to a bike-rack, sign pole, or meter pole using a tethered lock.

Note from the SFMTA: Implementation will require concerted collaboration with private micromobility and bikeshare companies to understand and assess these issues from logistical and technological standpoints, with SFMTA evaluating contractual obligations related to compliance. Companies would need to identify internal process to address these issues, potentially through development/ implementation of more advanced geofencing and user GPS technology, as well as locking upgrades for their inventory, and update policy and operations accordingly. Next steps could include developing a scooter and bike share policy working group with SFMTA staff, scooter and bike share company representatives, and community representatives to assess more immediate issues, such as secure parking of mobility devices.

Policy 2 (High Priority): SFMTA to regularly coordinate and work with DPW to ensure prompt and regular maintenance (i.e. pavement quality) and street sweeping/cleaning of bike lanes, in order to increase maintenance of existing bike lanes.

Note from the SFMTA: Implementation will require interagency collaboration with DPW to improve interagency process and increase funding for regular bike lane maintenance. Next steps could include the pursuit of a renewed agreement (MOU) between the agencies to reflect current and expected maintenance needs.

Policy 3: Explore extending pedestrian crossing times for pedestrians at high injury intersections, especially for seniors and people with disabilities, prioritizing crossings/ intersections along Mission, Howard, and Folsom Streets, including the intersection of 9th St and Howard St.

Note from the SFMTA: Next steps could include developing a project proposal to assess signal timing of intersections across the High Injury Network in SOMA.

Policy 4: To increase the visibility of the local community and the cultural district, incorporate culturally relevant crosswalk designs and other public realm amenities. This includes working with the cultural district on design of public realm amenities such as benches, plants, paving, tree grates, artwork, and any other opportunities.

- A) SFMTA will reach out to and coordinate closely with the cultural district whenever a new project or opportunity arises to install, update or incorporate crosswalks and public realm amenities.

- B) SFMTA will coordinate with PW and cultural districts for opportunities to include more benches and resting places for pedestrians (especially seniors, people with disabilities, and families with children) whenever opportunities arise for new or updated projects.
- C) SFMTA to explore with the cultural district incorporating cultural district wayfinding projects on/near bus stops, including bus shelters and bus ads.
- D) SFMTA to coordinate with the SF Arts Commission and the cultural district in art opportunities from the Art Enrichment Ordinance (2% for art program) whenever such opportunities arise, to ensure and promote culturally relevant artwork.

Note from the SFMTA: Implementation will require interagency collaboration with DPW, SF Planning, the SF Arts Commission, the SOMA Pilipinas Filipino Cultural District, and other stakeholders to update policy that will prioritize these initiatives and include mechanisms to ensure their inclusion. Next steps could include identifying ongoing and upcoming projects in the area, improving communication to provide timely project updates across agencies, and working with the cultural district to implement placemaking themes from the SOMA Pilipinas Design Toolkit and Arts Masterplan.

Policy 5: Include images of scooters, wheelchairs, and skateboards on bike lanes (not just bikes), to emphasize and encourage all modes of transportation that bike lanes are meant for.

Note from the SFMTA: Next steps would include review and update of infrastructure guidelines to ensure integration of additional symbols meets accepted standards.

Policy 6: Increase transparency on future SFMTA projects/policies/programs.

- A) Require a mandated community process for establishing any new programs, rules, regulations around any new modes of mobility (i.e. when scooter-share was “introduced”). Include regulations on any new modes of transportation that can use bike lanes that appear, through a community process. SFMTA shall work closely with community-based organizations, cultural districts, and community stakeholders to develop new regulations and a plan to introduce any such new modes of transportation that can use the bike network.
- B) Hold regular accountability sessions with residents, workers, and visitors in SOMA regarding any new bike lanes proposed, changes to existing bike lanes, or changes to the bike network. This should include targeted outreach specifically to underrepresented communities in the bike network including low-income residents, immigrants, English Language Learners, pedestrians, seniors, people with disabilities, and those who do not bike/do not use the bike network. Changes should be discussed and made under the guidance of such stakeholders and community members.

Note from the SFMTA: Next steps could include review and updating of minimum engagement standards and specific guidelines for SOMA, developed collaboratively with community members, to ensure that engagement processes connect with specific communities.

Policy 7: Revisit municipal bike-share and explore municipal scooter-share programs.

- A) Revisit San Francisco taking ownership of and operating the bike-share program to ensure better access, regulation, and oversight.
- B) Explore a municipal scooter-share program that subsumes existing private scooter-share companies, to ensure better access, regulation, and oversight.

Note from the SFMTA: Implementation will require the identification of a funding source to acquire inventory and provide staff for the program. Next steps would include the creation of a working group to assess the viability of municipal bike share in San Francisco, develop the program, and establish a funding mechanism to ensure ongoing operation.

Policy 8: Given significant concentration of Filipino ridership especially in the SOMA area, SFMTA to add Filipino language skills as a special condition to positions that are public-serving. Additionally, SFMTA to internally identify data on Filipino users and language needs to assess and ensure there is adequate SFMTA staff that can provide in language and culturally competent services in Filipino to the public; based on this internal assessment SFMTA to provide recommendations to fill any needs that are identified in language and cultural capacity.

Note from the SFMTA: Next steps could include a comprehensive study to understand Filipino language needs across San Francisco, work with SFMTA hiring managers to promote and prioritize Filipino language skills in open positions related to communication and outreach, and possibly to collaborate with other agencies, such as the Office of Racial Equity, to provide additional resources.

Programs

Program 1 (High Priority): Improve active transportation affordability and access for low-income residents.

- A) Implement a free bike-share and scooter-share program for low-income residents and residents who do not have storage space for active transportation. Eligibility requirements should be based off SFMTA's existing income requirements for the Lifeline MUNI pass, and people living in studio's or smaller (i.e. SRO)/or in a 1-bedroom with 3+ people. An outreach campaign should be conducted to promote this program in coordination with SFUSD and community-based organizations.
- B) Free bike storage for low-income residents and residents who do not have storage space for bikes. Eligibility requirements should be based off of SFMTA's existing income requirements for the Lifeline MUNI pass, and people living in studio's or smaller (i.e. SRO)/ or in a 1-bedroom with 3+ people.

Note from the SFMTA: Implementation will require coordination with DPW to identify funding sources for discount programs and increased bike storage options, including bikehangers. Next steps could include expansion and promotion of existing low-income discount programs, further assessment of feasibility of free scooter and bike share programs, as well as bike storage options, for low-income residents.

Program 2: Dedicated annual funding for SOMA Slow Streets programming activities.

Note from the SFMTA: Implementation will require coordination with other city departments, agencies, and community groups to identify funding sources for Slow Street activities. Next steps could include the creation of a working group with community members and interagency representatives to coordinate sponsorship and activation efforts.

Program 3: SFMTA to develop an educational campaign for instruction on e-bike safety and how to e-bike safely with other (slower) modes of active transportation (i.e. regular bikes). This should comply with the language access ordinance and be offered in multiple languages.

Program 4: Require scooter-share and bike-share companies have a rules and regulations video that riders must watch before using their products for the first time, and once every 6 months after. This should comply with the language access ordinance and be offered in multiple languages.

Note from the SFMTA: Implementation requires coordination with private scooter and bikeshare companies to create content and update policy.

Projects

Project 1 (High Priority): SFMTA to regularly coordinate and work with DPW to ensure prompt and regular maintenance and repair of damaged and low-quality sidewalks

- A) Focus on 3rd, 4th, 5th, 6th, 7th, 8th, 9th, and Market, Mission, Howard, Folsom and residential alleyways among those streets.

Note from the SFMTA: DPW is the city agency responsible for sidewalk repair, with property owners also responsible for maintaining sidewalks adjacent to their property. Implementation requires coordination with DPW to identify funding to prioritize sidewalk repairs, and to evaluate options to encourage property owners to initiate repairs to adjacent sidewalk. Next steps could include creation of a technical committee to review current policy and municipal code and identify opportunities for repair of damaged and unusable sidewalk space, as well as funding sources, such as large scale, public and private infrastructure and development projects.

Project 2 (High Priority): Install light up crosswalks for pedestrian crossings at High Injury Intersections.

- A) Focus installation on pedestrian high injury intersections in the intersections from 3rd to 9th crossing Mission and Howard (especially 6th St and 8th St); also include in major intersections including 3rd, 4th, 5th, 6th, 7th, 8th, 9th, and Market, Mission, Howard, Folsom.

Note from the SFMTA: Per MUTCD standards, in-pavement lighting at crosswalks is not recommended crossings at signalized intersections. Potential improvements could focus on accepted treatments for enhancing pedestrian visibility and traffic safety. Implementation will require coordination between SFMTA and DPW to identify funding to prioritize improved pedestrian visibility at intersections along the 2022 Vision Zero High Injury Network. Next steps could include identification and assessment of pedestrian visibility issues at these intersections, as well as planning to determine additional treatments to improve safety, such as curb extensions and traffic calming.

Project 3: Implement traffic calming measures to reduce car speeds and bike speeds, and install increased safety signage on Folsom Street between 6th and 7th (focusing on the areas of Bessie Elementary, Victoria Manalo Draves Park, and Gene Friend Rec Center), Harrison between 4th and 5th (Bessie Middle School), and Sherman St between Folsom and Harrison (Bessie Elementary).

Note from the SFMTA: Next steps could include assessing speed issues related to street design and developing a project proposal to identify a funding source.

Project 4: Install “no riding on sidewalk” signs for bikes, e-scooters, electric powered devices, etc on major streets (Market, Mission, Howard, Folsom, 3rd, 4th, 5th, 6th, 7th, 8th, 9th).

Note from the SFMTA: Next steps, in coordination with DPW, could include further engagement to understand locations with most sidewalk violations to prioritize sign placement.

Project 5: At high injury intersections, install “Danger High Crash Intersection, Slow Down” signs directed towards drivers to alert and educate drivers at such intersections.

Note from the SFMTA: The message of the proposed signage does not align with MUTCD accepted standards. Focus of physical implementations would be on traffic calming and pedestrian safety/comfort. Next steps could include the development of an educational campaign to promote safer driving in these areas.

Project 6: Revisit/upgrade quick-build projects in SOMA with a focus on pedestrian safety, that are aligned with the policies, programs, and projects referenced in this plan.

Note from the SFMTA: Implementation will require coordination with DPW to identify funding to prioritize improvements. Next steps could include evaluation of the conditions of current quick-build projects to determine which are best positioned to be upgraded with more permanent materials.

Project 7: Create increased bike parking and overnight resident storage.

Note from the SFMTA: Implementation will require coordination with DPW to identify funding sources for increased bike storage options, including bikehangers. Next steps could include expansion and promotion of s bike storage options.

Implementation and Next Steps



Upon acceptance of this Community Action Plan and the SFMTA Biking and Rolling Plan, SFMTA will participate in ongoing discussions with the community to communicate the process for implementing these policies/ programs/actions and staying accountable to community members, including quarterly updates to community stakeholders.

Appendix B



Appendix B:

Personal Mobility Device Guidelines

PURPOSE AND NEED

The SFMTA Micromobility Device Guidelines were developed to help establish a framework for integrating personal mobility devices, also known as micromobility devices, into San Francisco’s active transportation network.

San Francisco’s active transportation network was primarily designed for bicyclists. However, with the rise of new micromobility devices—such as electric scooters, electric skateboards, shared bicycles, and electric bicycles—SFMTA aims to support and integrate these devices while ensuring the safety and comfort of all users. This document outlines how to design for, accommodate, and incorporate micromobility devices into San Francisco’s active transportation network.

To design effective facilities for micromobility, it is imperative to understand how different micromobility devices operate, how to accommodate speed differential between device types, all with a goal of safely accommodating all network users.

LEGAL FRAMEWORK

A review of local regulations was conducted to understand the current legal context that governs micromobility device use. The SFMTA currently has no agency-specific regulations other than those for shared micromobility device operators. To understand the current context, this section answers the following questions:

- **What legal definitions does California use for micromobility devices?**
- **What devices can legally be used in San Francisco’s bike lanes?**
- **What are the current rules regulating micromobility device usage?**

What legal definitions does California use for micromobility devices?

SFTMA primarily defers to the legal definitions of micromobility devices provided by the State of California Vehicle Code (CVC), in Table 1 below.










Table 1: California Vehicle Code Definitions Relevant to Bicycles and Mobility Devices

Vehicle Type + (CVC Section)	California Vehicle Code Text
E- Bike <u>(400)</u>	<p>(a) An “electric bicycle” is a bicycle equipped with fully operable pedals and an electric motor of less than 750 watts.</p> <p>(1) A “class 1 electric bicycle,” or “low-speed pedal-assisted electric bicycle,” is a bicycle equipped with a motor that provides assistance only when the rider is pedaling, and that ceases to provide assistance when the bicycle reaches the speed of 20 miles per hour.</p> <p>(2) A “class 2 electric bicycle,” or “low-speed throttle-assisted electric bicycle,” is a bicycle equipped with a motor that may be used exclusively to propel the bicycle, and that is not capable of providing assistance when the bicycle reaches the speed of 20 miles per hour.</p> <p>(3) A “class 3 electric bicycle,” or “speed pedal-assisted electric bicycle,” is a bicycle equipped with a motor that provides assistance only when the rider is pedaling, and that ceases to provide assistance when the bicycle reaches the speed of 28 miles per hour, and equipped with a speedometer.</p> <p>(b) A person riding an electric bicycle, as defined in this section, is subject to Article 4 (commencing with Section 21200) of Chapter 1 of Division 11.</p>
Motorcycle <u>(400)</u>	<p>(a) A “motorcycle” is a motor vehicle having a seat or saddle for the use of the rider, designed to travel on not more than three wheels in contact with the ground.</p> <p>(b) A motor vehicle that has four wheels in contact with the ground, two of which are a functional part of a sidecar, is a motorcycle if the vehicle otherwise comes within the definition of subdivision (a).</p>
Motor Driven Cycle <u>(405)</u>	<p>A “motor-driven cycle” is any motorcycle with a motor that displaces less than 150 cubic centimeters. A motor-driven cycle does not include a motorized bicycle, as defined in Section 406.</p>
Moped <u>(406)</u>	<p>(a) A “motorized bicycle” or “moped” is a two-wheeled or three-wheeled device having fully operative pedals for propulsion by human power, or having no pedals if powered solely by electrical energy, and an automatic transmission and a motor that produces less than 4 gross brake horsepower and is capable of propelling the device at a maximum speed of not more than 30 miles per hour on level ground.</p>
E-Scooter (Privately Owned) <u>(407.5.)</u>	<p>(a) A “motorized scooter” is any two-wheeled device that has handlebars, has either a floorboard that is designed to be stood upon when riding or a seat and footrests in place of the floorboard, and is powered by an electric motor. This device may also be designed to be powered by human propulsion. For purposes of this section, a motorcycle, as defined in Section 400, a motor-driven cycle, as defined in Section 405, or a motorized bicycle or moped, as defined in Section 406, is not a motorized scooter.</p> <p>(b) A device meeting the definition in subdivision (a) that is powered by a source other than electrical power is also a motorized scooter.</p>
E-Scooter (Shared) <u>(554)</u>	<p>“Shared mobility device” means an electrically motorized board, as defined in Section 313.5, motorized scooter, as defined in Section 407.5, electric bicycle, as defined in Section 312.5, bicycle, as defined in Section 231, or other similar personal transportation device, except as provided in subdivision (b) of Section 415, that is made available to the public by a shared mobility device service provider for shared use and transportation in exchange for financial compensation via a digital application or other electronic or digital platform.</p>
Power Chair <u>(407)</u>	<p>A “motorized quadricycle” is a four-wheeled device, and a “motorized tricycle” is a three-wheeled device, designed to carry not more than two persons, including the driver, and having either an electric motor or a motor with an automatic transmission developing less than two gross brake horsepower and capable of propelling the device at a maximum speed of not more than 30 miles per hour on level ground. The device shall be utilized only by a person who by reason of physical disability is otherwise unable to move about as a pedestrian or by a senior citizen as defined in Section 13000.</p>
Segway <u>(313)</u>	<p>The term “electric personal assistive mobility device” or “EPAMD” means a self-balancing, non-tandem two-wheeled device, that is not greater than 20 inches deep and 25 inches wide and can turn in place, designed to transport only one person, with an electric propulsion system averaging less than 750 watts (1 horsepower), the maximum speed of which, when powered solely by a propulsion system on a paved level surface, is no more than 12.5 miles per hour.</p>
E-Scooter /Skateboard / One Wheel / E-Unicycle <u>(313.5.)</u>	<p>An “electrically motorized board” is any wheeled device that has a floorboard designed to be stood upon when riding that is not greater than 60 inches deep and 18 inches wide, is designed to transport only one person, and has an electric propulsion system averaging less than 1,000 watts, the maximum speed of which, when powered solely by a propulsion system on a paved level surface, is no more than 20 miles per hour. The device may be designed to also be powered by human propulsion.</p>

In California, what devices can legally be used in bike lanes, and what are the current rules regarding micromobility device usage?

Figure 1 below summarizes what devices can be used in bike facilities as well as rules and regulations specific to each device type.

Figure 1: Summary of Personal Mobility Devices and Basic Regulations

Vehicle Type and Speed	Do I need a license?	Do I need to register my vehicle?	Where can I ride?	Do I need to wear a helmet?
 <p>Class I E-Bike Pedal-assisted to 20 mph</p>	No	No	Bikeways, trails, and non-freeway streets	Recommended for all, Required for 17 and under
 <p>Class II E-Bike Throttle to 20 mph, Operable pedals*</p>	No	No		
 <p>Class III E-Bike Pedal-assisted to 28 mph</p>	No	No		
 <p>Moped With or without pedals Up to 30 mph</p>	Yes Driver's License and M1 or M2 Motorcycle License	Yes Must register with DMV to get License Plate and Moped ID. Insurance required.	Vehicular lanes on streets with speed limits up to 30 mph	Yes Required by law
 <p>E-Scooter With or without pedals Up to 30 mph</p>	Yes Must be 16 with any Driver's License	No**	Bikeways, trails, and non-freeway streets	Recommended for all, Required for 18 and under
 <p>Segway Up to 12.5 mph</p>  <p>Hoverboard</p>  <p>E-Skateboard</p>  <p>E-Unicycle (two kinds) Up to 20 mph</p>	No	No	Bikeways, trails, and non-freeway streets	Recommended for all, Required for 18 and under

*Pedal assist may be provided in addition to the throttle on Class II E-Bikes
 **See CVC Section 407.5 for additional information on manufacturer notification re: insurance; insurance recommended for privately owned E-Scooters

DESIGN GUIDANCE

This Design Guidance section addresses best and emerging design practices, approaches, and resources for effectively accommodating a variety of micromobility devices. San Francisco's Biking and Rolling Plan supplements this effort with policies, programs, and community-driven solutions aimed at ensuring safe, comfortable, and accessible micromobility use. Although these best practices offer guidance and considerations for creating a more inclusive network, gaps in research and design guidance persist and continue to evolve.

BEST AND EMERGING PRACTICES

The rise of new micromobility devices has prompted ongoing research and evaluation to determine how best to integrate them safely into existing street networks and infrastructure originally designed for bicyclists. This work has led to emerging best practices for designing for various micromobility devices, including:

INCLUSIVE TERMINOLOGY

With the growing diversity of micromobility devices, the transportation industry is exploring broader language for active transportation infrastructure beyond the traditional terminology of *bike facilities*. While many practitioners and agencies are still comfortable with the term *bike facilities*, as this terminology is recognized and established in existing policy, some cities are renaming facilities to be more inclusive of different devices. For example, the City of Atlanta uses the terminology *Light Individual Transportation (LIT) Lanes*. Similarly, San Francisco's Biking and Rolling Plan uses the term *active transportation network* to describe the entire on-street system that accommodates bikes as well as other micromobility devices, reinforcing the need for updated language that better reflects the evolving landscape of active transportation.

BIKE FACILITY WIDTH

The range of micromobility devices is constantly evolving, encompassing vehicles that are longer and wider than traditional bicycles, as well as electric-assist bikes and scooters. These electric-assist vehicles have a broader speed range compared to human-powered devices, leading to more frequent passing. To accommodate this dynamic mix, wider bike facilities can provide safer conditions for passing and side-by-side riding.

INTERACTIONS WITH PEDESTRIANS

The quiet operation and varying speeds of many micromobility devices necessitate thoughtful design considerations, particularly in areas where they interact with pedestrians, such as at intersections and transit stops. Effective signage and striping can help improve safety and awareness in these shared spaces.

SURFACE TYPE AND CONDITION

Micromobility devices with smaller wheels are significantly more affected by pavement conditions than those with larger wheels. Studies^{1,2} indicate that when bike facility pavement quality is poor, users of these devices often opt to ride on sidewalks, leading to space conflicts with pedestrians. Ensuring smooth and well-maintained surfaces for micromobility users can help improve safety and encourage proper facility use.

PARKING

The SFMTA has developed [parking requirement guidelines for shared mobility programs](#) that aim to ensure clear paths of travel. These same practices can apply to public device storage. On-street bike corrals can be designed with additional space to accommodate e-scooters, while on sidewalks, designating and clearly marking space in the furniture zone can promote better parking behavior. Agencies and vendors can further support compliance through education campaigns, such as website graphics, videos, and app splash screens. Some vendors have

¹ <https://www.portland.gov/transportation/escooterpdx/documents/2019-e-scooter-findings-report/download>

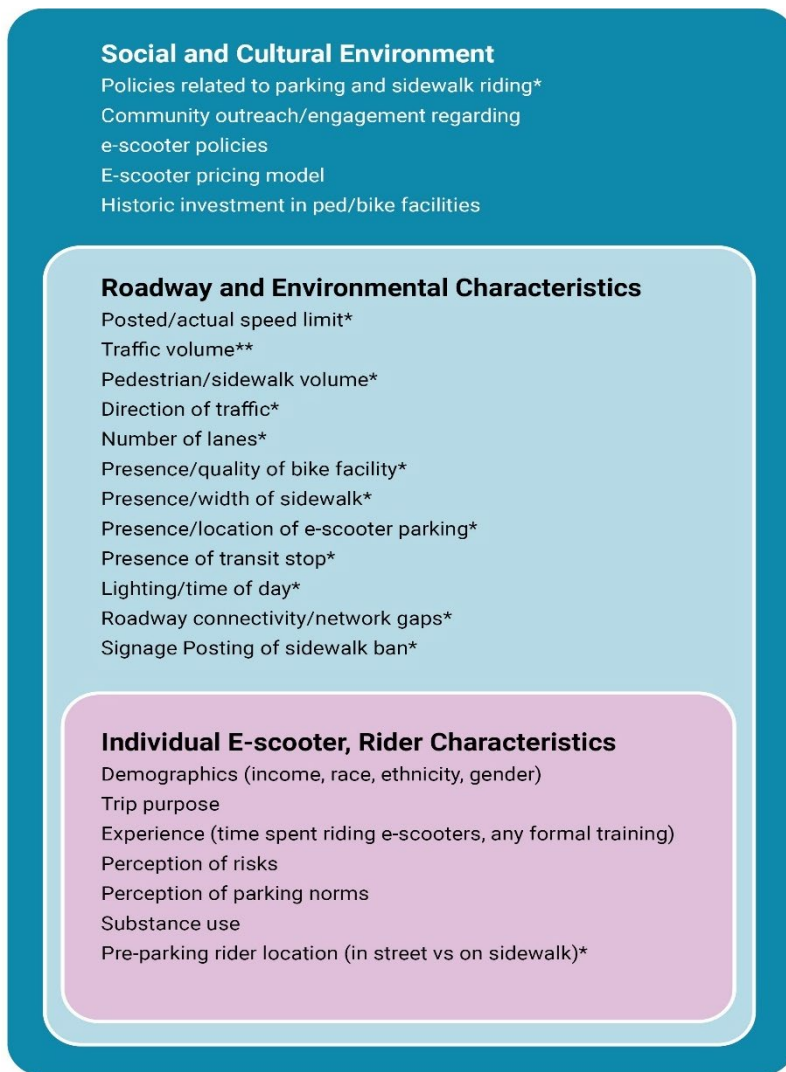
² <https://media.licdn.com/dms/document/media/D561FAQFaGJSiia4zXw/feedshare-document-pdf-analyzed/0/1702456048684?e=1707350400&v=beta&t=EBf7mFuZNwOfEc34hb6U0BdKYvPrPrQ1drmrZ9uJ41M>

also implemented measures like photo requirements, geolocation technology, and enforcement strategies to improve parking adherence.

HOLISTIC DESIGN

Research³ indicates that e-scooter riding behavior is influenced by a combination of individual rider characteristics, roadway and environmental conditions, and broader social and cultural factors. While this study focused specifically on e-scooter users, these findings can be applied to other micromobility devices as well. By considering factors holistically in infrastructure planning and policy development, cities can create environments that naturally encourage safe riding behaviors. Figure 2 illustrates how a comprehensive design approach can positively impact micromobility user behavior.

Figure 2: Holistic Design Approach (adapted from National Academies Press)



DESIGN APPROACH

The active transportation network in San Francisco was designed primarily for bicycles, and these facilities are generally the safest and most comfortable option for people using micromobility devices. However, as the variety of micromobility devices grows, infrastructure planning must adapt to accommodate a broader range of speeds and device sizes within bike facilities.

Prioritizing safety and comfort is essential to encouraging greater use of active transportation modes. Micromobility users should be considered vulnerable road users, as they lack protective enclosures and have unique operating characteristics, such as varying speeds, sizes, and acceleration rates, compared to motor vehicles.

This section outlines four key design approaches to creating an active transportation network that enhances safety and comfort for all users.

- Inclusivity
- Accessibility
- Connectivity
- Clear Expectations

* Measured in data set
 **Controlled through study design

³ National Academies of Sciences, Engineering, and Medicine. 2023. *E-Scooter Safety: Issues and Solutions*. Washington, DC: The National Academies Press. Figure 27. <https://doi.org/10.17226/27252>.

INCLUSIVITY

Active transportation networks should be designed to serve all users. Integrating bicycles and micromobility devices into these networks is a crucial step toward addressing transportation system inequities, as they provide viable mobility options for individuals without access to personal vehicles or reliable transit. However, if not designed inclusively, these networks can perpetuate disparities. To ensure accessibility for all, the active transportation network must accommodate users of all ages, abilities, and device types, accounting for different operating envelopes, speed profiles, and other key characteristics.

ACCESSIBILITY

All streets should be safe and accessible for a full range of micromobility devices (except where they are specifically prohibited by law and clearly signed). While bikeways are intended for micromobility device use and are not required to meet pedestrian accessibility guidelines, to the maximum extent practicable, efforts should be made to make the facility as accessible to, and usable by, individuals with disabilities.

CONNECTIVITY

A well-connected and continuous active transportation network ensures that users can travel safely, conveniently, and reliably to their destinations. Connectivity means that key destinations—including residential neighborhoods, employment centers, shopping districts, schools, transit stations, and community amenities—are directly and safely accessible through a seamless network of facilities. Achieving this level of connectivity requires the consistent application of design elements and facility types while clearly identifying and addressing known gaps in the network.

CLEAR EXPECTATIONS

A legible network makes it easy for people to navigate the network and to know where—and where not to—ride. Network structure, bikeway types, and bikeway designs should be intuitive to navigate. The active transportation network should be consistently signed and marked and be easily identifiable to all roadway users so that expectations are clear, and conflicts are minimized.

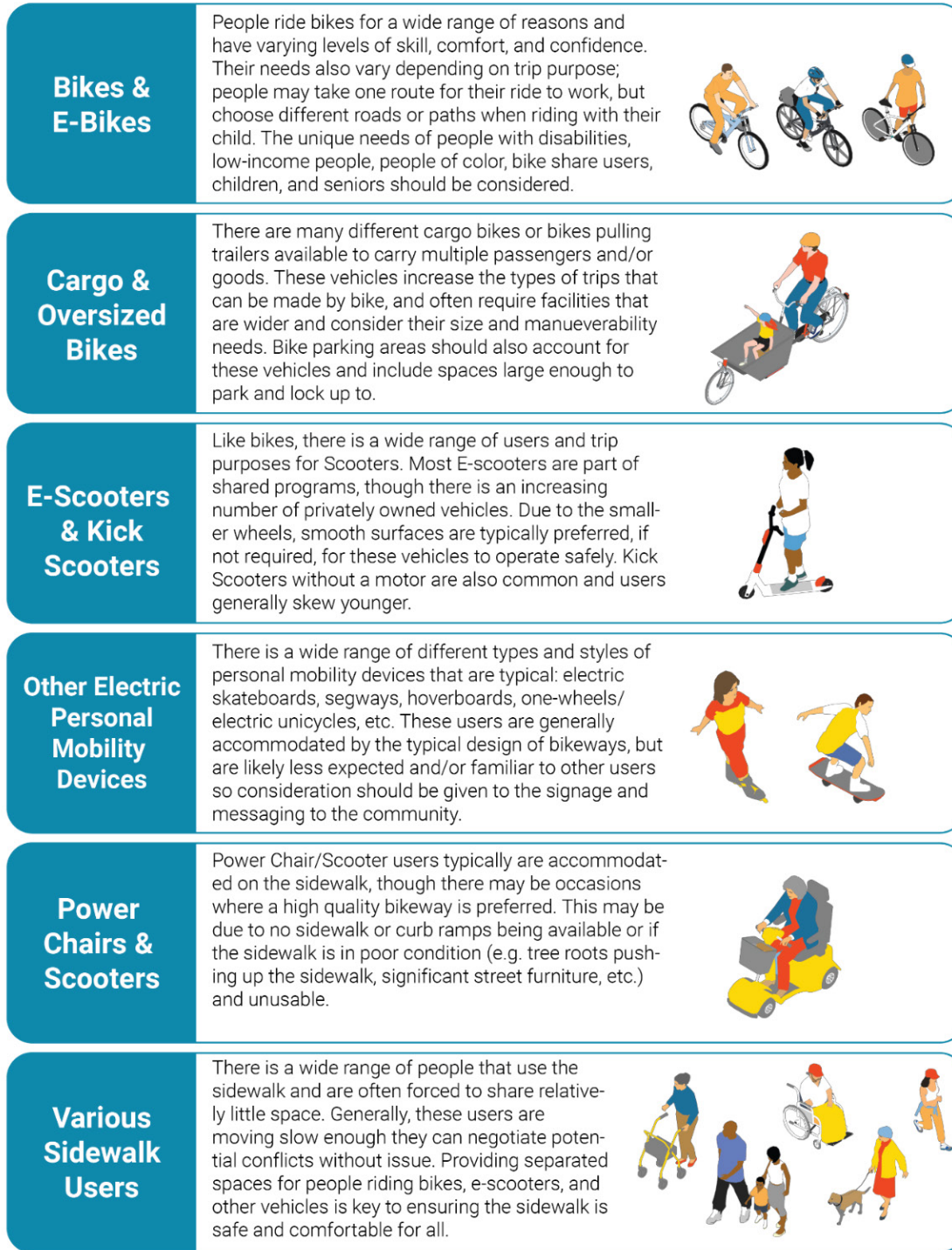
DESIGN USER

DESIGN USER CHARACTERISTICS

To create an active transportation network that serves all ages and abilities, designers must account for human factors such as physical ability, experience, and the capacity to perceive potential conflicts. Designing with the widest range of users in mind helps create a more inclusive network, ultimately accommodating a greater share of the population.

Error! Reference source not found. provides high-level considerations and characteristics of people using different micromobility devices.

Figure 3: Design Considerations and Micromobility User Types



VEHICLE TYPES

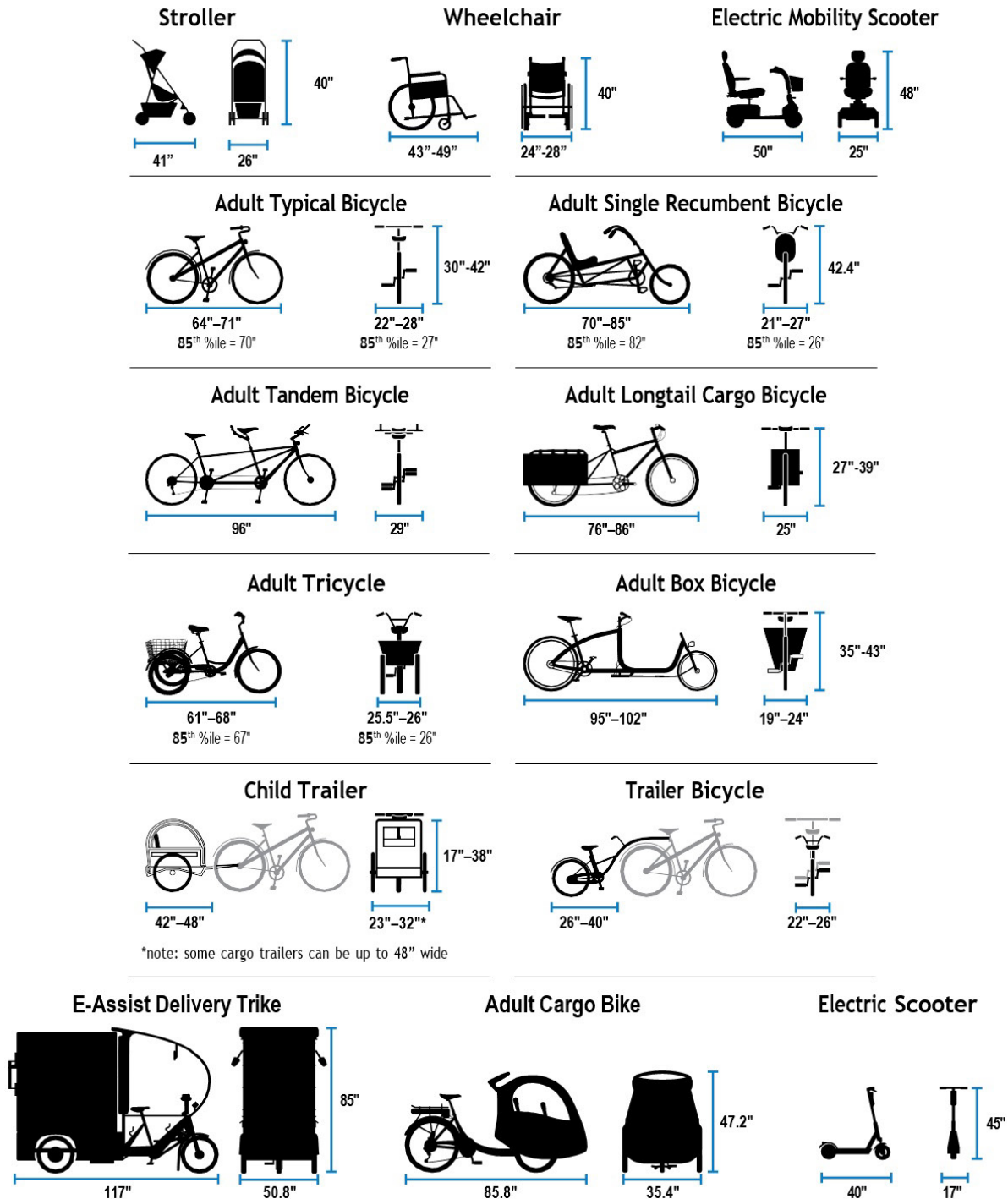
The typical height, width, and length of common device types found on San Francisco streets and trails are shown in

Figure 4: Typical Design Parameters for Common Vehicle Types

Source: AASHTO Guide for the Development of Bicycle Facilities, 5th Edition . Some devices are not depicted, such as one-wheel hoverboards, electric unicycles, electric skateboard/longboards, and seated e-scooters—these devices are generally a similar or smaller in footprint than the vehicles shown in Figure 4.

Minimum facility widths for bike lanes, shared use paths, and sidewalks within the SFMTA’s existing guidance do not account for the full range of the devices shown in Figure 4, particularly when considering the mix and interaction of devices and the space they occupy while operating. Designers should aim to meet or exceed the preferred widths where possible, using the guidance in Table in the following section.

Figure 4: Typical Design Parameters for Common Vehicle Types
 Source: AASHTO Guide for the Development of Bicycle Facilities, 5th Edition



RECOMMENDED GUIDELINES

Planners and designers should consider micromobility devices and users when deciding on design elements such as lane widths, passing opportunities, queuing spaces, grade changes, ramps and transitions, surface materials, and maintenance protocols. The following guidelines provide key considerations for facility design that can accommodate a range of devices.

LANE WIDTHS

The appropriate width for a bike facility is dependent on facility type, context, expected volumes, vehicle types, and mix of users. As the number of users grows and the mix and type of micromobility devices increases, there is an increasing need for wider facilities. This section provides guidance on determining facility width for typical operations expected in San Francisco, and contexts for where additional space may be needed.

Operating Space and Passing Considerations

The *operating space*, or riding space, is the *physical space* occupied by the micromobility device and its rider plus the *lateral space* needed to operate the device comfortably and safely. The physical space is determined by the width of the widest portion of the device, typically the handlebars for bicycles and e-scooters, or the wheelbase on adult tricycles, child or cargo trailers, adult box bicycles, hoverboards, segways and e-unicycles. The physical space of different types of bicycles and other micromobility devices commonly seen on the streets of San Francisco are shown in

Figure 4: Typical Design Parameters for Common Vehicle Types

Source: AASHTO Guide for the Development of Bicycle Facilities, 5th Edition . The lateral space needed to operate a device can range from one foot for more comfortable riders to two and a half feet for more novice riders.⁴ Bike facility widths should also account for the passing space required to accommodate the expected mix of micromobility devices plus any shy distance (the buffer area between a roadway, bike lane, or sidewalk and adjacent elements like walls, curbs, barriers, or parked vehicles).

Table 2 summarizes width guidelines for riding and passing space for common vehicle types.

Table 2: Width guidance for riding and passing for different micromobility vehicles

Vehicle Type	Space Required for One-Way Bikeway		Space Required for Two-Way Bikeway	
	<i>For riding</i>	<i>For passing</i>	<i>For riding</i>	<i>For passing</i>
Typical bike	3.5' to 4.5'	3'	8' to 10'	11' to 13'
Cargo bike	4.5' to 5.5'	3.5'	9' to 11'	12' to 14'
Extra-large / freight bike	6.5' to 7.5'	5'	12' to 14'	15' to 17'

⁴ https://nacto.org/wp-content/uploads/2023/03/WP_designing_for_small_things_with_wheels_FINAL_March1-2023.pdf

Skateboarders/Inline skaters	5' to 6'	3'	10' to 12'	13' to 15'
Based on NACTO Designing for Small Things with Wheels and other best practice guidance				

Calculating Facility Width

To determine the ideal width for a bike facility that best accommodates a range of devices, designers should first identify the widest vehicle expected to use the facility frequently as the *design vehicle*. Additionally, they should consider the widest vehicle anticipated to use the facility occasionally as the *control vehicle*. This approach ensures the facility is appropriately sized to support safe and efficient movement for all users.

With the design and control vehicles identified, Table 2 can be used to calculate the usable width, which is the riding space of the control vehicle *plus* the passing space of the control vehicle. For two-way facilities, the usable width is double the riding space of the control vehicle, with an additional three feet for busy facilities or where high volumes of larger devices are anticipated. See Figure for an example of how these widths are combined.

Bicyclists and other micromobility device users avoid vertical obstructions to avoid handlebar and pedal strikes. Recommended and minimum shy distances adjacent to vertical elements (e.g., curbs, flexible delineators, barriers, railings) are provided in

Table 3. Figure 5 shows details of recommended shy distance for four typical curb types. Designers should account for shy distance needs on both sides of the bike facility where applicable.

Figure 5: Recommended Shy Distance by Curb Type

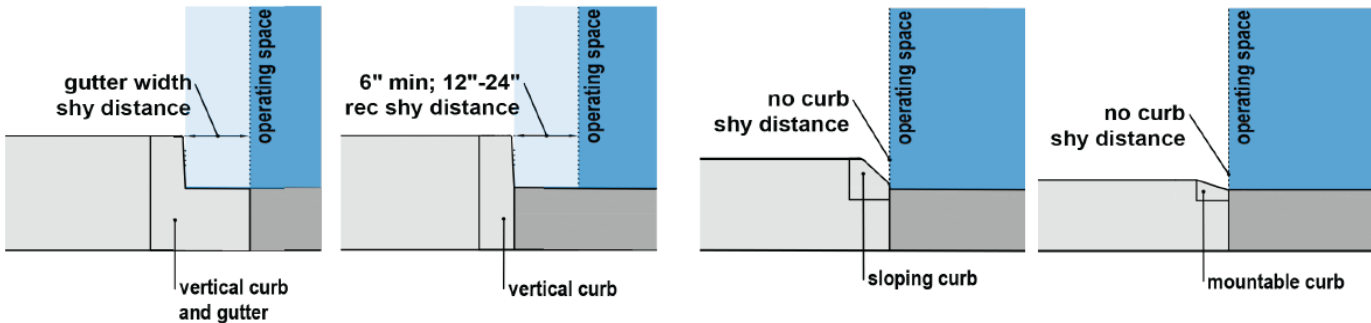


Table 3: Bicyclist Lateral Shy Distance to Vertical Elements

Physical Element	Shy Distance (in.)	
	Minimum	Recommended Range
Intermittent Elements (e.g., trees, flex posts, poles) *	0	24 – 36
Traffic Signs and Supportive Posts on Curbed Roadways	12	24 – 36
Traffic Signs and Supportive Posts adjacent to Paths	24	36 – 48

Continuous Elements (e.g., fence, railing, barrier, planter)	12	24 – 36
Vertical Curbs (see Error! Reference source not found.)	6	12 – 24
Mountable / Sloping Curbs (see Error! Reference source not found.)	0	6 – 12

*To minimize crash risks, it's best not to eliminate the shy distance, and any additional shy distance will be beneficial.

Figure 6: Recommended facility width based on design and control vehicle dimensions.
 Source: NACTO Designing for Small Things with Wheels

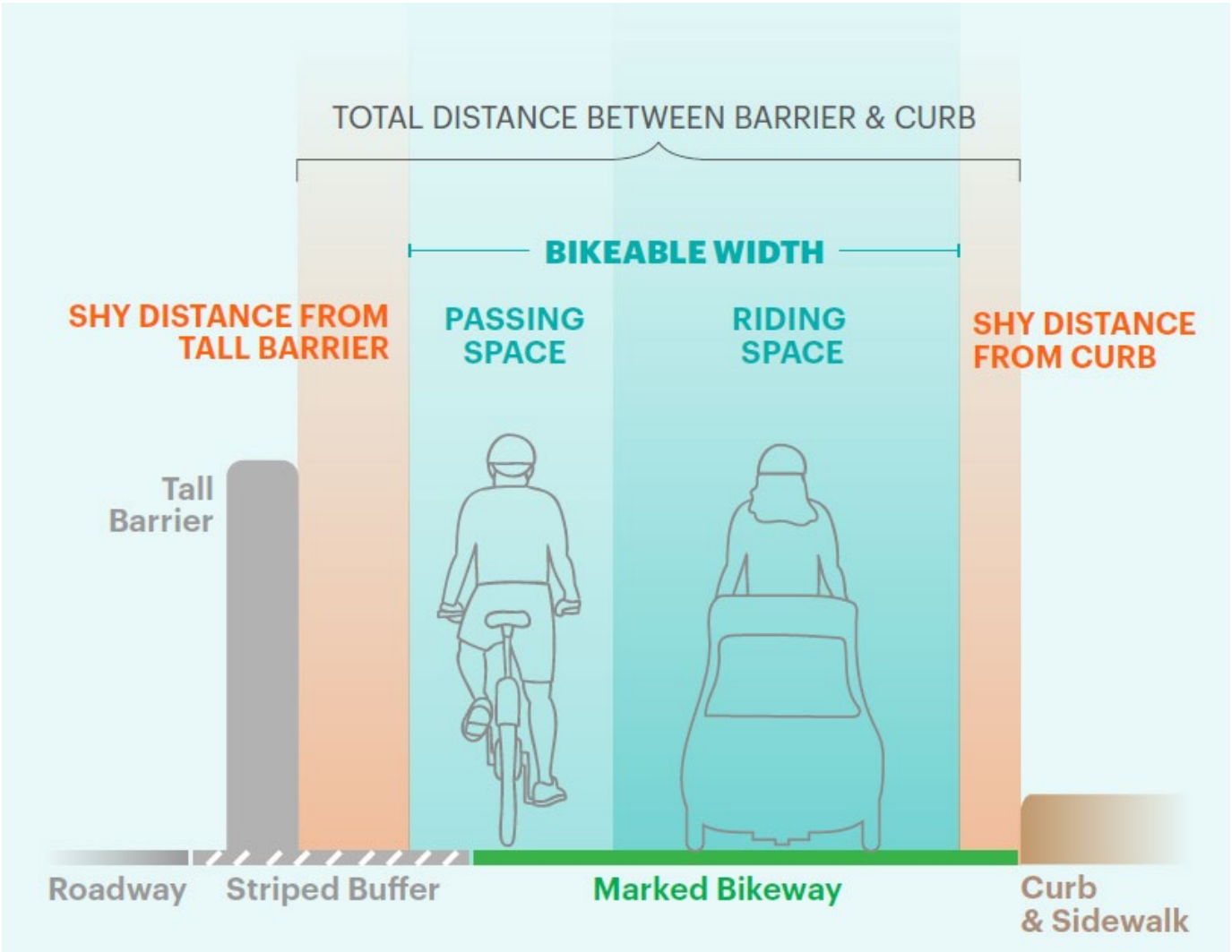


Table provides existing SFMTA guidance as well as best practices on minimum and preferred widths for paths, protected bike lanes, and bike lanes.

Table 4: Summary of Bike Lane Widths by Bikeway Type (Existing Guidance)

Bikeway Type	Existing SFMTA Guidance	Best Practice Guidance
Paths (Class I)	<ul style="list-style-type: none"> • No pedestrians (rare): 8' minimum, 10' preferred. • Low pedestrian volumes: 10' min., 12' preferred. • Moderate pedestrian volumes: 12' min., 16' preferred. • Heavy pedestrian volumes: separate into low-speed and high-speed lanes – 16' min., 20'+ preferred. 	<ul style="list-style-type: none"> • Minimum and preferred widths are in line with the best practices above. • The recommended number of operational lanes based on volumes are: <ul style="list-style-type: none"> ○ 2 lanes for peak hour volumes (phv) of 150-300 users ○ 3 lanes for phv of 300-500 ○ 4 lanes for phv of 500 or more
Protected Bike Lane (Class IV)	<ul style="list-style-type: none"> • Lane width: 5' minimum, 7' preferred. • Street buffer: 2' minimum, 3'+ preferred, 7' maximum* <i>*If extra space available, add to lane width. Do not want vehicles to park in buffer.</i> 	<ul style="list-style-type: none"> • Lane width based on volumes: <150 phv, 6.5'-8.5' preferred 150-750 phv, 8.5-10' preferred >750 phv, >10' preferred • To accommodate extra-large vehicles such as a delivery trike and also allow a typical bicyclist to pass, a lane width of 10' is needed, see Table 2 for riding and passing space of typical vehicles to inform design of both one-way and two-way facilities
Lanes (Class II)	<ul style="list-style-type: none"> • 4' minimum, 5' if adjacent to parking. • 6-8' preferred*. <i>*If 8' or more is available, consider a painted buffer or a protected bike lane</i> 	<ul style="list-style-type: none"> • A 4' minimum is only recommended for cases where the lane is adjacent to the edge of pavement (no curb) or in between painted buffers (e.g., a bike lane between parking and a travel lane with buffers on both sides) • A 6.5' minimum is required to allow occasional passing, occasional side-by-side bicycling, or where larger cargo bikes or other devices are anticipated

CONTEXTS FOR ENHANCEMENTS

Meeting or exceeding the higher range of widths summarized in Table is recommended where one or more of the following conditions exist:

- Where it is desirable to allow micromobility users and pedestrians to travel side-by-side throughout a corridor and still accommodate passing from the other direction (e.g., three lane operation, see *Speed Management* section below).
- Where it is desirable to allow micromobility users to operate at speeds of 20-30 mph to minimize conflicts with other users. This may be applicable for regional routes or facilities that are long and have relatively few conflict points.
- If the path is a regionally significant bicycle travel corridor.

- Where groups of pedestrians, golf carts, skaters, adult tricycles, children, or other users that need more operating width are likely to exceed 30% of the path volume.
- Where the off-street path is used by larger maintenance vehicles.
- On steep grades to provide additional passing area and shy distances for faster downhill users (see *Surfaces and Gradients* section below).
- Through curves and tunnels to provide more operating space where it would otherwise feel constrained.

Designing an active transportation network inclusive of the wide range of micromobility users also requires considering where higher-quality facilities may be appropriate. There are a variety of situations that may indicate the need for greater separation (such as additional buffer width, additional vertical buffer elements, or other measures) between people rolling and motor vehicles than what is determined based solely on roadway speeds and volumes. These include the following:

Unusual Motor Vehicle Peak Hour Volumes

Bike facilities that accommodate all ages and abilities are generally sufficient on streets with annual average daily traffic volumes (AADTs) below 8,000 to 10,000 vehicles per day. If peak-hour volumes make a street feel like a high-traffic corridor, upgrading the facility to a path or separated bike lane may enhance safety and comfort for all users. This may be particularly beneficial when the peak hour for motor vehicles coincides with the peak hour for micromobility users. Some examples with unusually high peak volumes may include local streets near schools, hospitals, or popular event locations, such as stadiums. Many school zones experience particularly high-volume peak periods with intensified conflicts between motorists and micromobility users where parent pickup/drop-offs make up a high percentage of trips. Providing additional separation may be appropriate in these cases, especially if the facility is intended for children, vulnerable populations, or serves as an important link in the bicycle network.

Traffic Vehicle Mix

Higher percentages of trucks and buses increase crash risks and discomfort for micromobility users due to vehicle size, weight, and sight line limitations (i.e., blind spots). This is a particular concern for right turn conflicts, where large vehicles may appear to be proceeding straight or even turning left prior to making a right turn movement. Additional buffer width between a separated bike lane and the motor vehicle travel lane at the intersection can improve visibility in these locations. Additional separation between micromobility users and motor vehicles is particularly important on streets where heavy vehicles are more than five percent of traffic.

Parking Turnover and Curbside Activity

Conflicts with parked or temporarily stopped motor vehicles present a risk to micromobility users. High parking turnover and curbside loading may expose users to being struck by vehicles making parking maneuvers, opening vehicle doors, people walking to or from their vehicle in the bike lane, vehicles stopped within the bike lane, etc. In locations with high parking turnover or curbside loading needs, providing physically separated bike lanes can help alleviate conflicts. Common locations may include metered and short-term on-street parking zones, commercial districts, loading zones, hotel valet services, and locations with high ride-hailing demand.

Vulnerable Populations

The volume of children and seniors should be considered during project planning and facility selection. These groups may feel more comfortable traveling on physically separated facilities, even where motor vehicle speeds and volumes are relatively low. They may be less confident in their riding abilities and, in the case of children, less visible to motorists, have inadequate experience operating in the roadway environment, and have reduced traffic awareness skills compared to adults. There may also be potential conflicts where these road users are expected to share space as pedestrians. Common locations may include areas near hospitals, schools, senior centers, and parks.

Network Connectivity Gaps

Even if not warranted, providing separated facilities may be applied to provide a consistent bikeway along a corridor, particularly to improve legibility and set clear expectations to other road users. Examples include on-

street connections between two major paths, where routes connect to parks or other recreational opportunities, or where a primarily separated bike lane facility passes through a neighborhood on a local street for a segment of the corridor.

Transit Considerations

On-street bike facilities on streets with relatively frequent transit headways will result in interactions between the transit vehicle pulling to the curb and micromobility users using the bike facility. This can impact bus operations and negatively impact a micromobility user's level of comfort. The FHWA's *Separated Bike Lane Planning and Design Guide* provides options for minimizing conflicts with transit, including creating floating bus stops where the bike lane transitions to sidewalk level and wraps behind or through the bus stop area, placing the bike facility on the left side of a one-way street (out of the way of transit stops along the right side), or choosing to install a bike facility on a nearby parallel street away from transit.

SPEED MANAGEMENT

The speed capabilities for micromobility devices commonly found in San Francisco varies considerably. Designers should consider a combination of maximum speeds and sustained speeds when possible and understand the need to manage speed where users have the potential to come into conflict. While research shows that micromobility devices can operate at sustained higher speeds over longer distances, this research also finds that people operate these devices like conventional bicycles.⁵

Design Speed

Design speed is a fundamental design control used to determine various geometric features of bikeways as well as some signal timing and street crossing parameters. It is common practice to use the design speed of a typical adult bicyclist to ensure that geometric design characteristics (e.g., turn radii) can accommodate faster users and, by default, users moving more slowly, such as children, seniors, and less-confident adult bicyclists. The prevalence of electrified or other micromobility devices with higher sustained speed may require different design parameters or benefit from providing separate facilities to accommodate different speed devices.

The speed of a micromobility user is dependent upon several factors, including the age and physical condition of the user; the type and condition of the user's equipment – particularly if it has an electric motor or is e-assist; the purpose and length of the trip; the condition, location, and grade of the facility; the prevailing wind speed and direction; and the number and types of other users on the facility. For these reasons, there is no single design speed that is recommended for all facilities.

Standard bicycle speeds range from 4-18 mph, and e-bike speeds range from 12-18 mph, though higher speeds may be achieved on downhill or long, straight segments. E-Scooters are typically capable of up to 20 mph speeds, though most shared micromobility operators can cap the maximum speed of the fleet to minimize risk. Other micromobility device speeds typically range from 5-15 mph with the capability of up to or over 20 mph. This range of speeds should be accommodated for all bike facilities. Some design choices may need to account for slower speeds. This could include developing signal timings that account for slower users (e.g., children and seniors) who need more time to cross intersections.

⁵ Langford, B.C.; Chen, J.; Cherry, C.R. Risky riding: Naturalistic methods comparing safety behavior from conventional bicycle riders and electric bike riders. *Accid. Anal. Prev.* 2015, 82, 220–226.

Speed Considerations at Conflict Points

Lower operating speeds at conflict points allow micromobility users, motorists, and pedestrians more time to perceive potential conflicts. Geometric design and traffic control devices can be used to reduce the speed differential between users. Speed control through geometric design is less effective if bicyclists can adjust their path to straighten curves. Additionally, speed limit signs on bike lanes may have limited impact since most bicyclists do not use speedometers. **Error! Reference source not found.** illustrates a real-world example in Vancouver, BC, outside a hospital Emergency Room, where the protected bike lane incorporates both horizontal and vertical deflection. This design highlights the potential conflict point and slows cyclists as they approach the driveway, alerting them to turning vehicles.

SEPARATION OF MODES

Separating different modes of transportation can reduce conflicts and create more comfortable facilities for all users. The scenarios shown in Figure 8 illustrate ways to separate pedestrians from cyclists and micromobility device users. In all options, pedestrians are typically provided with a bi-directional walking lane on one side, while cyclists are given directional lanes on the opposite side. The path should be at least 15 feet wide, with a minimum of 10 feet allocated for two-way personal mobility device traffic and at least 5 feet for pedestrians.

Option 1: Space for different users is designated using pavement markings. The entire width of the path must be accessible to pedestrians.

Option 2: Users are separated by a traversable surface delineation, with space designated for each user through different surface materials. The full path width must be accessible to pedestrians.

Option 3: Users are physically separated with two parallel paths, such as a sidewalk and a protected bike lane. When separation occurs on a path with a view (e.g., next to a lake or river), the pedestrian lane should be placed on the side with the view.



Figure 7: Protected Bike Lane in Vancouver, BC outside an Emergency Room provides horizontal and vertical deflection at the conflict point.

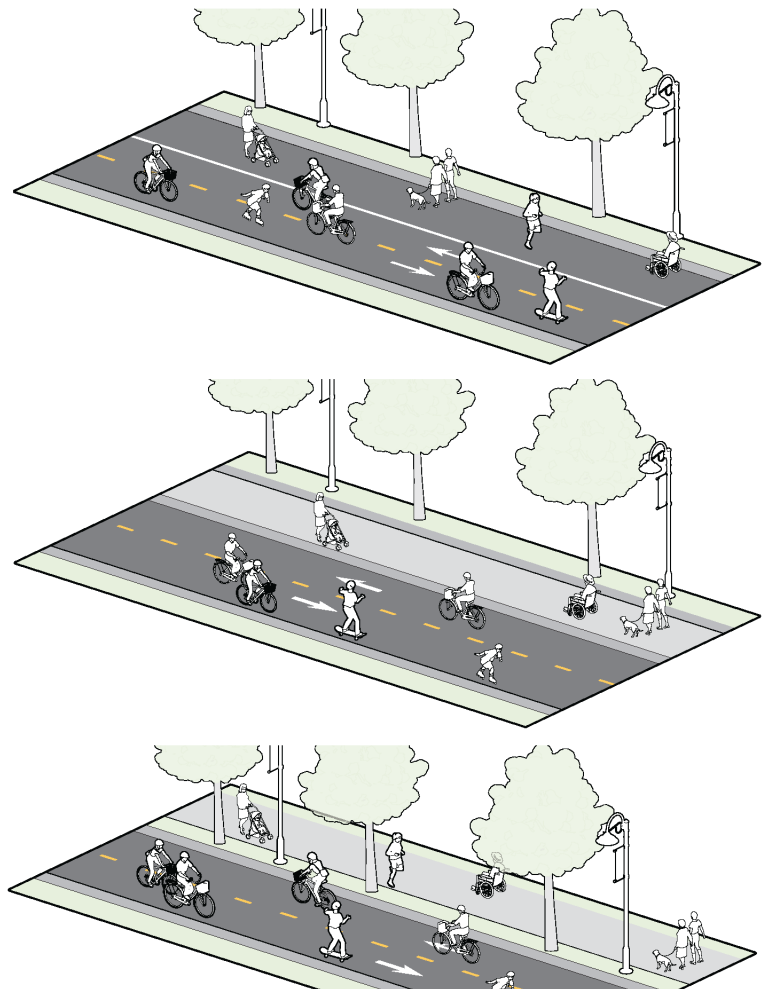


Figure 8: Options for Separating Micromobility Users from Pedestrians
Source: Ohio DOT Multimodal Design Guide

SURFACES AND GRADIENTS

It is important to construct and maintain a smooth rideable surface on bike facilities. Hard, all-weather pavement surfaces such as concrete or asphalt pavement are recommended for on-street protected bike lanes and standard bike lanes. Paths and promenades must meet pedestrian accessibility surface requirements, which require a smooth, stable, and slip resistant surface. All-weather pavement is preferred compared to unpaved surfaces such as crushed aggregate, stabilized earth, or limestone screenings.

While unpaved surfaces may be appropriate in less dense or more natural areas, they provide less traction, decrease braking ability, and can cause bicyclists and personal micromobility device users to more easily lose control. Bicyclists and other personal mobility device users must travel at lower speeds compared to on paved surfaces. Some micromobility devices, especially those with small wheels such as skates, skateboards, and scooters will find it extremely challenging to use unpaved paths. In areas that experience frequent or even occasional flooding or drainage problems, or in areas of moderate or steep terrain, unpaved surfaces will often erode and require substantial maintenance. The increase in micromobility users and devices is likely to increase the need for paved surfaces.

Asphalt or concrete provides a good quality, all-weather pavement structure. Advantages of concrete include longer service life, reduced susceptibility to cracking and deformation from roots and vegetation, and a more consistent riding surface even after years of use and exposure to the elements. On concrete pavements, transverse control joints may be sawcut to provide a smoother surface for bicycling, as opposed to tooled joints which are wider. Joints will be more significantly felt by users riding micromobility devices with smaller wheels. A disadvantage of concrete pavements is that pavement markings can have a lower contrast against the concrete surface; markings typically have a higher contrast on an asphalt surface, particularly at night.

Advantages of asphalt include a smoother surface with fewer joints, and typically lower initial construction costs than with concrete. Asphalt surfaces are softer and are therefore preferred by runners and walkers over concrete. However, asphalt pavement is less durable and often requires more interim maintenance.

ONGOING MAINTENANCE

On-street bike facilities are susceptible to the accumulation of debris, leaves, and vegetation which can create hazardous conditions for micromobility users. In locations where regular cleaning of a bicycle lane is not practical, a wider bicycle lane may be beneficial to allow more space for debris to accumulate while maintaining a rideable path. Additionally, the design and placement of bike facilities should consider in-road utilities, stormwater grates, and typical repairs. Maintenance operations should take extra care to ensure that smooth, rideable surfaces are maintained. Any lips resulting from roadway patching or resurfacing should be limited to 0.5 inches to reduce the potential for a tripping hazard or balance of a micromobility user.

UPHILL / PASSING LANES

Given some of the steep street grades in San Francisco, designers should consider ways to provide the most comfortable facilities possible on these streets. This is particularly important when an inclined road is the only connection between communities and key destinations.

On streets where downhill grades are long enough to result in bicycle speeds similar to typical motor vehicle operating speeds, designers can consider using shared-lane markings in the downhill direction to provide a wider bicycle climbing lane in the uphill direction (see Figure). Where the grades change, it may be desirable to switch sides of the street to maintain the bicycle lane in the



Figure 9: Example of an uphill climbing lane with shared lane markings in the downhill direction

uphill direction. It is generally preferable for the transition from a bike facility to a shared lane to occur at an intersection with stop or signal control where bicyclists and personal mobility device users can move into the travel lane while vehicles are stopped, however the transition may need to occur midblock.

This design can be advantageous on streets where fast downhill bicycle speeds have the potential to increase the likelihood of crashes with motorists opening parked vehicle doors or exiting driveways.

In situations where there is a large volume of riders in the uphill direction, a bicycle passing lane may help to sort bicyclists personal mobility device users – particularly when they are starting from a stop or a signalized intersection as shown in the example in Figure 3.



Figure 3: Example of a passing lane on a high-volume inclined bike lane

INTERSECTIONS

Protected intersections include design elements that increase safety and comfort for all users and are the preferred treatment for intersections with separated bike facilities on an approaching roadway. Well-designed protected intersections are intuitive, promote predictable movements, and allow bicyclists, pedestrians, and motorists to communicate using eye contact. Protected intersections can be implemented as part of roadway reconstruction projects or using low-cost vertical materials during resurfacing projects.

Key design features include horizontally offset bike facilities to the right of vehicle travel lanes leading up to the intersection, and a corner deflection island which slows right-turning vehicles and increases driver awareness of crossing pedestrians, bicyclists, and personal mobility device users.

Potential elements of a protected intersection are shown in Figure 4 and high-level descriptions and considerations for each numbered element are summarized below. While fully built out protected intersections

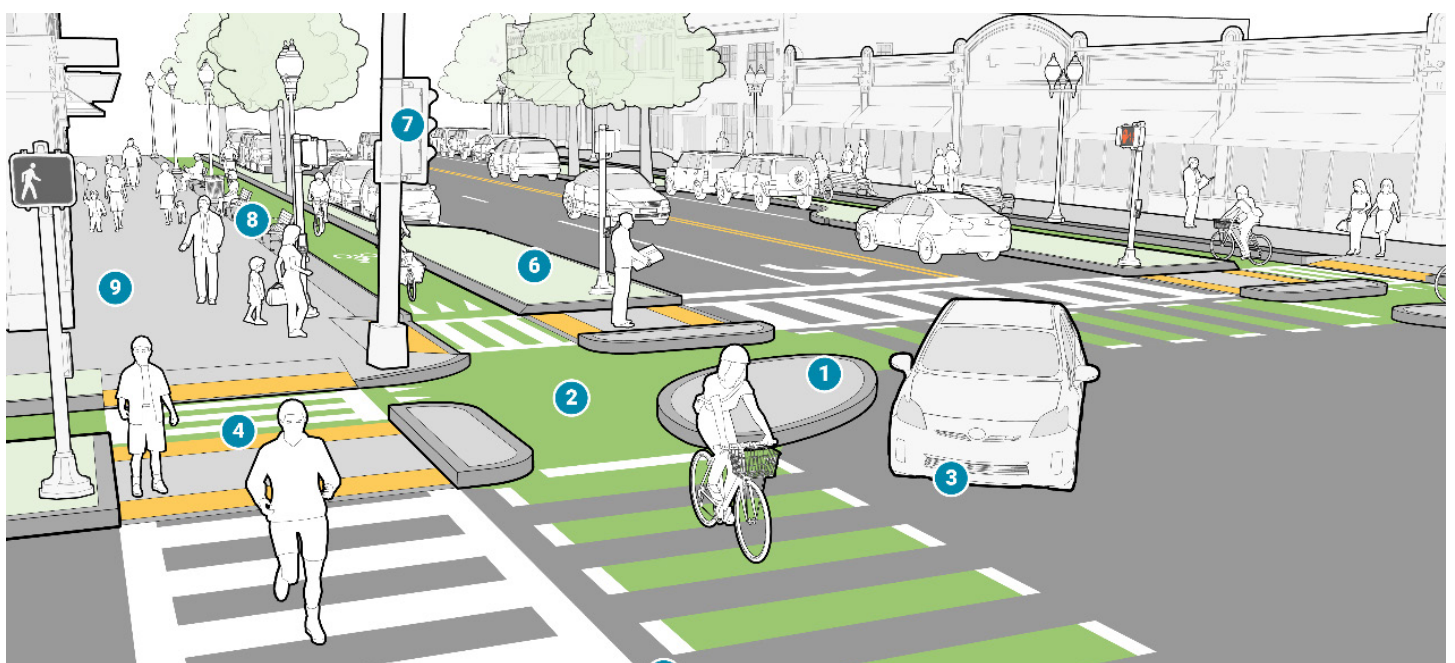


Figure 4: Features of a Protected Intersection
Source: Toole Design

may not always be feasible, elements below are still applicable when designing standard intersections and can be applied to the extent possible.

Features of protected intersections include:

Corner Islands (1)

Corner refuge island allow bike facilities to be physically separated from traffic up to the crossing point and protect bicyclists and other personal mobility device users from right-turning vehicles. Mountable truck aprons can be considered for corner refuge islands where design vehicles exceed SU-30. A corner island may be implemented using materials such as pavement markings, flexible bollards, planter boxes, or other elements to provide vertical barriers between bicyclists and personal mobility device users and motor vehicles. They are generally considered interim facilities and can provide flexibility for design modifications before full reconstruction. The SFMTA is increasingly implementing protected corner treatments using "turn wedges" at various locations. This approach, which utilizes interim materials, can significantly reduce the risk of drivers colliding with cyclists or pedestrians. Turn wedges are designed to limit drivers' speed to 5 mph and force them to make a 90-degree turn. Often, turn wedges are combined with painted safety zones, the khaki-colored areas wrapping around sidewalk corners in San Francisco. These painted safety corners can also be used as standalone treatments at intersections without bike lanes. They are a cost-effective alternative to full curb extensions while achieving similar safety objectives.

Queuing Areas (2)

Queuing areas provide bicyclists and personal mobility device users space to wait ahead of the crosswalk for a green signal or a gap in traffic, shortening the crossing distance and helping to position users in the direction they are heading while ensuring visibility to and from turning cars. The size of the queue area should take into consideration the size, mix, and volumes of anticipated users. Designers should understand that the existing volumes and vehicle mix may increase substantially after the implementation of protected bike lanes and intersection treatments. A queue area should be 6.5 feet deep to fit the minimum range of users, but 10 feet or more may be needed to best accommodate trailers, cargo bicycles, and high volumes. The opening at the entrance and exit of the crossing to the street should typically have the same operating width as the bike facility.

Motorist Yield Zones (3)

Bicycle and pedestrian crossings set back from the intersection create space for turning motorists to yield to bicyclists, other personal mobility device users, and pedestrians. Research indicates safety benefits at locations where bicycle crossings are offset from the motorist travel way at a preferable distance of between 6 and 16.5 feet.^{6,7} This offset provides the following benefits:

- Improves motorist view of approaching bicyclists and personal mobility device users by reducing the need for motorists to scan behind them.
- Potentially creates space for a motorist to yield to bicyclists, other personal mobility device users, and pedestrians without blocking traffic approaching from the rear (for right turns) or the side (for left turns across two-way streets)
- Provides more time for all users to react to each other and negotiate the crossing.

Pedestrian Curb Ramps and Refuge Medians (4)

This design provides a pedestrian refuge median between the bike facility and the travel lanes, separating the crossing into two phases. An ADA accessible curb ramp is required, and when an island is used, tactile domes should be placed as shown in Figure 4 to provide clear guidance to users that there are distinct crossings. In

⁶ Childs, C.R., T. Fujiyama, D.K. Boampong, C. Holloway, H. Rostron, K. Morgan, and N. Tyler. Shared Space Delineators: Are They Detectable?. Transport for London, 2010.

⁷ University College London. Testing Proposed Delineators to Demarcate Pedestrian Paths in a Shared Space Environment. Guide Dogs for the Blind Association, United Kingdom, January 2008.

constrained conditions where there is insufficient width to provide a 6-foot-wide pedestrian refuge median, it is possible to provide a narrower median; however narrower medians are not considered to be a pedestrian refuge median. In these cases, accessibility features (e.g., detectable warning surfaces, signal buttons) should be placed at the curb ramps prior to the pedestrian crossing of the bike lane.

Bicycle and Pedestrian Crossings of Travel Lanes (5)

As shown in Figure 4, bicyclists and other personal mobility device users cross the motorist travel lane between the motorist yield zone and pedestrian crossing. Continental crosswalks are the current standard in San Francisco, consisting of white stripes running parallel to the curb and provide high visibility (as opposed to the previous standard of two thin transverse lines the width of the street). Crosswalks near K-12 schools must be painted yellow.

Micromobility Parking (6)

On-street micromobility parking (often referred to as a bike corral, or parking corral) reduces conflicts between micromobility users and pedestrians, helps preserve sidewalk clear zones, provides direct connections to bike lanes, and increases micromobility parking capacity and visibility. On-street micromobility parking is typically found in medium to high density, mixed-use areas with programmable space and pedestrian zones; however, may also be located anywhere where there is a desire to maximize sidewalk clear space by encouraging bicyclists and personal mobility device users to park within the street. Bike corrals are typically a series of bicycle racks located on a street in unused space, curb extensions defined with vertical elements, or in place of a car parking space. A bike corral can include space without racks to accommodate larger bicycles or other micromobility devices.

For shared micromobility services, SFMTA has a [detailed guide](#) on parking standards.

Signal Operations (7)

Bicycle signals improve safety at signalized intersections by designating when bicyclists have right-of-way through an intersection, reducing the number of interactions between people in vehicles and people on bicycles and personal mobility devices. Bike signals visually indicate when bicycles and personal mobility devices should enter the intersection and are paired with vehicle signals that direct turning drivers to either yield to bicyclists or to stop and wait until their designated time to enter the intersection. When designing a bike signal, it is important to consider dedicated phases for bicycle movement to a signalized intersection requires reallocating time from other traffic movements, which may have cascading effects on nearby intersections.

To install new bicycle signals, the underground electrical conduit system must have room to accommodate additional wires and existing poles and must have space to mount more signal heads in positions that are clearly visible to approaching traffic. The act of installing new poles or upgrading underground conduits triggers further coordination with utility companies and other City departments, adding to overall timelines and costs. An additional option, which has a lower cost and is easier to implement, is a Leading Pedestrian Interval (LPI), also known as a “pedestrian head start”. This is a type of traffic signal timing change that gives people the walk signal before vehicles are given a green light in the same direction. This low-cost improvement allows pedestrians more time to cross the street and enhances the visibility of people crossing the street to other road users. Enhanced visibility of people crossing the street increases the likelihood of people who are driving to yield to people walking. LPIs also provide more time for people who may be slower to start walking in the intersection. An LPI may also be utilized by bicyclists and other micromobility users via the inclusion of a bicycle signal or signage indicating bicycles use the pedestrian signal.

Sidewalk Buffers (8)

Sidewalk buffer zones separate the sidewalk from the separated bike facility, communicating that the sidewalk and the separated bike facility are distinct spaces. By separating people walking and bicycling, encroachment into these spaces is minimized and safety and comfort is enhanced for both users. There are varying degrees of separation that can be provided, and the most appropriate design should consider the safety and comfort of users, available right-of-way, drainage and maintenance needs, and the adjacent land uses. One key design consideration is to provide a continuous detectable edge in the sidewalk buffer so pedestrians with vision

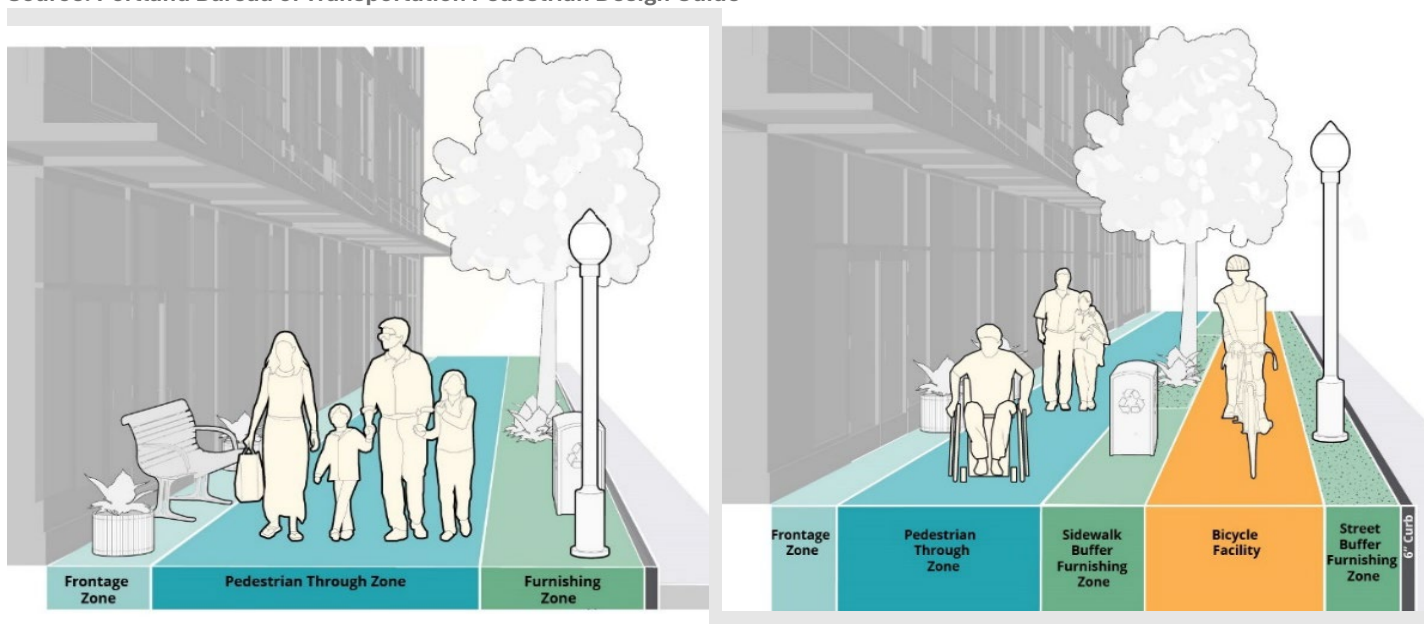
disabilities can distinguish the sidewalk space from the bike facility zone. For people who are blind or have low vision, it can be difficult or impossible to detect the presence of a separated bike lane, particularly when the bike lane is at the same elevation as the sidewalk.

Any of the curb types discussed previously can be used to separate the bike facility from the adjacent sidewalk and provide a detectable edge. A continuous landscape bed is another effective buffer zone treatment that can provide a detectable edge for pedestrians with vision disabilities. Finally, street furniture or other detectable features (such as a row of street trees) can be an effective method of separation, provided that a clear and accessible path of travel and sufficient sidewalk width is maintained for unobstructed pedestrian flow. This treatment is most effective when the vertical elements provide a consistent buffer along the sidewalk. The placement of vertical elements in the sidewalk buffer should consider the shy distances for the range of users as discussed previously.

Wide Sidewalks (9)

Providing enough clear and usable space for pedestrians and other users of sidewalks best supports all roadway users and minimizes conflicts with micromobility device users. Wherever possible, sidewalks should have a furnishing zone (or sidewalk buffer as discussed above), a pedestrian through zone, and a frontage zone (when applicable to the land use). This will allow for the range of sidewalk furniture and business operations to not interfere with the clear space used by pedestrians. Figure 5 provides examples of these zones as they may apply to San Francisco streets with and without bicycle facilities.

Figure 5: Example Sidewalk Zones for Streets with and without Bikeways
Source: Portland Bureau of Transportation Pedestrian Design Guide



NETWORK LEGIBILITY

Safe and comfortable active transportation networks are easy for all roadway users to understand. Information on signs and markings should be used to help indicate where micromobility devices are allowed to travel and what to expect.

RESOURCES

Many different resources were used to help compile this document and are listed below. Figures and photos courtesy of Toole Design unless otherwise noted.

- NACTO provides an large amount of design guidance and publications, all of which are [available online](#). Key documents are noted and linked below.
 - [Urban Street Design Guide](#)
 - [Urban Bikeway Design Guide](#)
 - [Designing For Small Things with Wheels](#)
 - [Designing for All Ages Abilities](#)
 - [Material Success Designing Durable Bikeways](#)
 - [Don't Give Up at the Intersections](#)
 - [Bike Share Siting Guide](#)
 - [Complete Connections Building Equitable Bike Networks](#)
- [ITE Micromobility Facility Design Guide](#)
- [ITE Recommended Practices on Accommodating Pedestrians and Bicyclists at Interchanges](#)
- [FHWA Guide for Maintaining Active Transportation Infrastructure for Enhanced Safety](#)
- [AASHTO Guide for the Development of Bicycle Facilities, 4th Edition](#)
- [AASHTO Guide for the Planning, Design, and Operation of Pedestrian Facilities, 1st Edition](#)
- [Caltrans Highway Design Manual Chapter 1000 Bicycle Transportation Design](#)
- [Caltrans Class IV Bikeway Guidance \(DIB -89-02\)](#)

Appendix C



Bicycle Parking Guidelines

SF Bike Parking Concept, Approaches, Challenges and Recommendations

Introduction – Why is Bike Parking Important?

For San Francisco to achieve Transit First, Vision Zero, and Climate Change goals related to mode shift, the city must consider specific requirements of secure bike storage and provide sufficient facilities to encourage bicycling.

Shifts in bicycle design also make providing secure storage a necessity. The popularity of e-bikes and cargo frames is growing because they support a wider range of trip purposes and geographies, which makes them a viable alternative to car-ownership. These bikes are often larger and/or more expensive than traditional bikes. To function as a public good, bike parking design needs to mirror trends in bicycle design.

Growth of ebike delivery also changes the context of bicycle parking. Electric bikes allow more bicycle access in the city, especially given the hilly terrain. Ebike commercial trips are more economical, nimble, and dependable, requiring fewer resources than driving in the urban environment. Other dense cities are seeing the ebike delivery expansion trend and without proper bike parking, sidewalk clutter becomes a public realm nuisance.

This section lays out a conceptual framework for thinking through the range of bike parking options. It identifies challenges and recommendations for the types of bike parking San Francisco currently has, and it imagines new possibilities to explore in the future.

Bike Parking Categories

Two convenient axes help comprehensively categorize bike parking infrastructure. First, consider whether the user parks the bike by themselves, or whether it requires a staff person. Second, consider if the facility is for short- or long-term storage.

	Self-Parking	Staffed Parking
Short Term	Rack Corral	Valet
Long Term	Locker Hangar	

Self-Parking

Within the public-realm, San Francisco only has self-parking facilities. Self-parking facilities tend to be lower cost than staffed parking since it does not require operational labor cost, though this also means it tends to be less secure.

The SFMTA implements self-parking facilities by request and proactively.

Short-Term Parking

The SFMTA provides short-term bike racks and corrals because they are affordable and demonstrably beneficial. Short-term facilities are inconsistently distributed throughout the city. Residential areas have more private space for secure storage. Other areas, like parks, commercial districts, schools, and public service buildings, should have predictably available short-term parking.

SHORT-TERM PARKING RECOMMENDATION

The SFMTA should consistently provide short-term parking options uniformly across a designated range of land uses and public facilities, especially when other options like corrals or valets are not available.

Racks



Photo of a sidewalk bike rack

Bike racks are the basic unit of bike parking. They are mostly installed on the sidewalk in the furnishing zone between the curb lane and outside the pedestrian right of way. Established guidelines direct placement and design. In addition to SFMTA installations, bike racks are also installed as part of developer agreements. Sometimes other public jurisdictions owned by other departments (e.g. Port, RPD, RED) install racks as well. There are currently more than 10,000 publicly accessible bike racks in San Francisco.

Most bike rack installations are simple. In the same way that the SFMTA can immediately install signs or meters in the sidewalk furnishing zone, bike racks can also be implemented easily since they provide such an obvious value, and they have minimal impact on the built environment. Still, some can become controversial since merchants or residents may view them as a nuisance when the rack location fronts private property.

In places without racks, bicyclists often lock to parking meters however with citywide expansion of multi-space parking meters the supply of meters poles and associated bike parking is diminishing.

RACK RECOMMENDATION

Bike rack implementation should continue throughout the city with an installation rate of 1,000 per year.

Bike rack implementation should continue to be documented within the SFMTA's management efforts for record-keeping and for future assessment and evaluation of bike parking supply and demand.

Bike rack installations should be closely coordinated with meter removal. Traditional ring-style attachments to meter poles were rejected as viable options for SFMTA Shop staff based on installation challenges. The SFMTA should consider simpler bolt-on options, or other creative solutions that can convert select remaining meter poles into bike parking.

When bike rack placement adheres to established design guidelines, private annoyance over properly placed bike racks should be disregarded if no better solution is possible.

Corrals



Photo of an on-street bike corral

Bike corrals are clusters of bike racks placed on-street. Corrals have the benefit of helping to bicycles from being ridden on the sidewalk, which is illegal and degrading to the pedestrian realm. There are currently 130 bike corrals installed on streets throughout San Francisco.

Bike corrals can avoid the controversy of sidewalk bike racks. But because they're on-street, corral installation can face public scrutiny related to parking loss or roadway maintenance. Parking impacts should be disregarded since mode shift goals are fundamentally about making transportation alternatives to driving comparatively easier to choose over driving.

Corrals were traditionally sponsored by residents or merchants who agreed to sweep and maintain them free of trash and debris. More recently, the city has started to implement corrals proactively without sponsors—often in red zones and “daylighting” areas near crosswalks and intersections for increased visibility. Corrals can provide value as vertical obstructions to prevent large vehicles from parking in the red zone, still preserving the safety benefits of increased visibility.

Sidewalk widths in the city can be narrow, many too constrained to support bike racks without bikes infringing into the pedestrian right-of-way. In these locations,

daylighting corrals may be the only tangible option to provide more bike parking supply.

CORRAL RECOMMENDATION

Bike corrals for daylighting should continue to be installed. Guidelines for corrals in a spectrum of land use could be helpful, especially in relation to density or surrounding uses.

Bike corrals are starting to be hosted by neighborhood associations and commercial districts, not just private property owners and tenants. More outreach describing the role of corrals should continue.

Bike corrals should be prioritized over concerns of on-street vehicle parking loss.

Bike corral implementation should continue throughout the city with an installation rate of 18 per year. This will likely require dedicated staffing for design as well as installation. Concerted efforts to provide the associated labor should address understaffing issues, which will likely require collaboration across subdivisions, including Livable Streets, Sign Shop, and Human Resources. All parties should be aware of these installation targets as a motivation for establishing a dependable stream of labor.

Bike corral outreach is needed in specific neighborhoods where there is an abundance of narrower sidewalks. Daylighting corrals should be discussed with the community prior to any implementation since some opponents may complain that corrals prevent temporary loading. The SFMTA should disregard these complaints because the motivation for daylighting is to provide visibility for safety.

Long term parking

San Francisco provides long-term lockers and hangars in a handful of public realm locations. Long term parking needs more security hardening compared to short-term options since the window of opportunity for theft or robbery is larger. These facilities require more expensive hardware and service contracts with vendors for procurement and servicing. While lockers and hangars do not require on-site staffing, they currently have contracts with private vendors for procurement and operations, which requires ongoing telecommunications service, cleaning, maintenance, and enforcement.

Long Term Parking Recommendation

The city should consider more long-term parking options. Public campaigns should educate communities on why these are important for mode shift. Outreach should collect feedback to identify desirable co-located services and amenities, like electric vehicle charging, or community programming for mobility hubs.

Bike Lockers



Photo of SFMTA-owned bike lockers (22nd Street Caltrain Station)

Bike Lockers are more secure since they provide enclosed parking for individual bikes. They are in parking garages and near major transit hubs, like the 22nd Street Caltrain Station and the Transbay Terminal. There are currently 64 SFMTA-owned bike lockers; an additional 192 publicly accessible bike lockers exist on non-SFMTA property such as at BART stations, City College, and UCSF. Users pay \$.05/hour to use the locker space and must register with the partnering locker operator.

Lockers have a relatively large footprint compared to bike racks because they enclose more space around an individual bike, which can accommodate fully loaded bikes with racks and panniers. Despite securing more space, newer larger bikes, like e-cargo bikes, do not fit in typical bike lockers.

Because lockers are limited access, they can also lead to other security concerns for major events, like visiting heads of state, or large sports events.

LOCKER RECOMMENDATION

The city should continue to monitor bike locker demand, consider the cost and benefit of staffed-parking alternatives, and expand locker access at places with major trip generators, with more security needs, when there are no staffed-parking options.

Existing and future lockers design may need to be modified to accommodate larger bicycles. The city should attempt to make 25% of all lockers large enough to accommodate larger bikes.

Hangars



Left: photo showing Bikehangar at Howard & Second Streets

Right: photo showing inside of Bikehangar at 4th & Minna Streets

Hangars are currently piloted in the Yerba Buena district at two on-street locations; they enclose up to six bicycles. The hangars provide access to a group of registered users to store their bikes for \$.05/hour.

On-street hangar implementation can attract public opposition due to parking impacts and they currently do not accommodate larger e-cargo bikes.

In other cities, on-street hangars have shared access between a limited number of households who collectively need to share bicycle storage. In San Francisco, we have yet to try this model.

HANGAR RECOMMENDATION

The city should continue to monitor hangar use, consider the cost and benefit of staffed-parking alternatives, and experiment with other hangar pilots in areas with other land uses. More demand and regular use are likely in older dense multi-family residential and commercial areas where private secure long-term storage is harder to find or access.

Staffed Parking (Bike Valet)

San Francisco does not have any permanent valet bike parking in the public realm. Valets can be found at private large sports/concert venues, and occasionally at large private events that choose to provide valet services. Parking duration is flexible with bike valets. Since someone is monitoring the bike, users can leave them with valets for either short- or long-term parking.

Valet services can be the most expensive because they require both associated capital land cost for storage and operational labor costs for staffing. There may be technology-informed visions of sufficient autonomous bike parking facilities *without humans*. Therein lies the true value of staffed parking. It offers the unique benefits of involving other humans, community, empathy, care, and employment. Self-parking options may be affordable, but they can't be as comprehensively secure, safe, or relatable as staffed parking.

One challenge of bike valet is labor hours. For bike valet to function around the clock, solutions may be needed to partition space between staffed services during busy hours and non-staffed services during low-demand times.

VALET RECOMMENDATION

San Francisco should consider staffed parking in more places to accommodate growing short- and long-term parking options. Valet services could combine services with other SFMTA programming, including community outreach, education and customer service.

Staffed parking venues could provide community bike shop space, to non-profit efforts. These might also be desirable in empty storefronts along commercial corridors as supplemental short or long-term parking.

Until recently, bike valet was required to some extent at publicly permitted street fairs in conjunction with Transit First goals. Major musical events in Golden Gate Park sometimes feature bike valet. A more consistent policy around pop-up bike valet is recommended.

The SFMTA should actively try and establish permanent bike valet parking at the Ferry Building and the SF Transbay Terminal. These locations are major regional transit hubs, linking multiple service providers, including ferries, buses, and rail and are prime locations to encourage multimodal trips, which could be fostered with monitored bicycle storage or e-charging facilities. The ferry building is on Port property and the SF Transbay Terminal is governed by the Transbay Joint Powers Association, and cooperation would require

partnership with TJPA and potentially the Metropolitan Transportation Commission.

An older bike valet business plan commissioned by the SFMTA also identified West Portal as a potential location for bike valet. The Bike Parking Program should develop a combined effort with OEWD that works with Community Benefit Districts to utilize empty store fronts for bicycle valet. This effort could host operational benefits for everyone, including the following.

- Short- and long-term bike parking
- In-person community feedback collection
- Transportation concierge services—assisting people interested in learning about more mobility options, especially transit dependent communities like seniors and students
- Micromobility management services, tidying up misparked devices and assisting with rebalancing needs
- Non-profit community partnership (e.g. youth programming, community bike repair, or safety campaign education)
- Changing rooms and shower facilities

Auxiliary Programs and Facilities

Bike parking is fundamentally about securing bicycles for storage so that users are comfortable to try, or continue, bicycling with less worry of theft. However, a thorough understanding of bike parking challenges would be remiss without a holistic approach in considering other solutions to theft, as well as other barriers to mode shift which might benefit from adjacent amenities.

First, secure storage is not the only way to alleviate concerns about theft. Bikeshare is another way to minimize user worry since the bicycles in the system don't belong to the user. Bikeshare solves storage challenges through large scale proprietary design. This allows replacement of bikes and components to be easy and affordable, and part of the shared service cost. Bikeshare effectively *shares* the worry of bike storage.

BIKESHARE RECOMMENDATION

There may be richer collaborative opportunities between bikeshare and other secure bike storage facilities. Bike valet staff could accommodate bikeshare operations like rebalancing needs, or temporary nodes at major destinations.

Bikeshare requires storage in the public realm, and other bike parking facilities like corrals and hangars could fluidly be converted to bikeshare stations, or vice versa.

Second, major barriers to bicycling also include insecurity about rider presentation, sweatiness, or professional attire. Bike parking facilities could be implemented in partnership with access to showers, changing rooms, and other public amenities.

ADJACENT AMENITIES RECOMMENDATION

San Francisco should intentionally provide access to other bicycling-related amenities like changing rooms and showers near bike parking, especially in central areas with dense employment. Programming could take advantage of established facilities required by new development mandates, or partner with nearby private venues with the requisite space and utilities.

Appendix D



Biking and Rolling Plan Recommended Programs

Biking and Rolling Plan Draft Programs

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Biking and Rolling Programs

Programs can encompass many aspects of the proposed work in the San Francisco Biking and Rolling Plan. For the purposes of this document, the organizing of SFMTA's Streets Division's roadway design, bicycle parking and other work programs that guide the implementation of the City of San Francisco's work will be incorporated in the implementation section when this document returns for approval, once the list of recommended projects has been created. The programs presented below are external facing and engage with the public as the direct receiver of benefits of the program.

Programs are organized into three key areas that were identified and developed with community stakeholders to better identify what work was being proposed and approved in each of the key focus areas.

Economic and workforce development

San Francisco is a city of neighborhoods supported by local commercial districts, as well as a nation-leading economic innovator supported by a significant downtown/financial district and convention center. The long-term viability and strength of each of these areas relies heavily on transportation access and mobility. As the city and region continue to grow, space on city streets will be available at more and more at a premium, necessitating on-going changes to accommodate shifting transportation modes and an increase in the number of people visiting the commercial areas of the City. The programs identified in this plan work to ensure that our commercial areas are safe for those who visit, that efficient use of city street space ensures that deliveries and trips for those who need to arrive by car are competing less for the limited space available. Programs will be developed based on the individual needs and characteristics of the local neighborhood to ensure that benefits are maximized for businesses and residents while supporting the city's transportation and climate goals. While not listed in the programs section, this plan includes both increased communications and outreach to San Francisco's business communities and owners and recommendations on addressing concerns related to construction disruption, parking availability and deliveries.

Business Incentives and Benefits

SFMTA will work with the Office on Economic and Workforce Development, as well as the Small Business Commission and related organizations to develop programs that support increases in the use of bicycles and other active transportation for:

- Employee access to work, including incentives, including for bikeshare, and transportation support
- Customer access to business via bicycle and other wheeled apparatus

Development of bicycle/rolling-friendly business recognition program to increase visibility for local businesses

E-Bike Delivery Support

Based on the finding of the pilot program implemented by the San Francisco Environment Department (SFE), look to expand the transition of app-based delivery drivers to electric bikes (e-bikes). The one-year pilot program is scheduled to be completed in the Spring of 2024 with results completed before the finalization of this plan, further program details will be included in the final document.

Education and encouragement

In support of San Francisco's Vision Zero policy to eliminate all roadway fatalities, this plan recommends continuing and expanding long-provided safety programs that focus on creating safer streets for people who bike and roll. The programs also aim to increase the number of people relying on zero-emission, environmentally friendly modes of transportation and reduce the cost-to-entry. Specifically including costs related to financial, language, cultural, and gender hurdles, for shared transportation and electric assist apparatus to ensure equitable access for all.

Mobility Education

Safe Driving Program

Working with City partners, continue to develop education related to increasing street safety for people who bike and roll. As many collisions that involve people on bikes, scooters and other rolling modes involve people driving vehicles inappropriately, targeted education and high-visibility-enforcement efforts will be developed or re-launched to increase safety on city streets.

Adult Bicycle Education

Continue the SFMTA's bicycle safety program. The program provides on-street bicycle riding and bicycle maintenance classes to adults and youth. All of the bicycle safety classes are free and open to the public, and all skill levels are welcome to attend. The program will continue to offer a wide range of classes from teaching people to ride a bicycle for the first time, to helping existing riders feel more comfortable and confident riding in San Francisco. Offerings will also include e-bike trainings and adaptive bicycle classes as well.

Scooter Safety Education

Continue the SFMTA's scooter safety education program. The program provides on-street scooter riding classes to adults and youth. All of the scooter safety classes are free and open to the public, and all skill levels are welcome to attend. The program will continue to

offer a wide range of classes, from teaching people to ride a scooter for the first time, to helping existing riders feel more comfortable and confident riding in San Francisco. Classes, as well as accompanying public education materials and ads, will also focus on how to ride safely and legally.

School Safety programs

In-School Bicycle Education

The In-School Bicycle Education Program will deliver basic bicycle handling and safety curriculum to students in the 2nd, 6th and 9th grades at San Francisco Unified School District (SFUSD) schools, first teaching students how to balance on a bike and then to safely ride on San Francisco streets. The 9th grade students are also taught basic maintenance skills. In addition to promoting lifelong fitness, the program builds a culture in San Francisco, beginning at a young age, which embraces sustainable transportation alternatives and understanding the rules of the road. While some aspects of this program have been in place for over a decade, the goal of this program is to implement a permanent, in-school bike education program at all 72 elementary schools, 21 middle schools and 19 high schools in San Francisco within the timeline of this plan.

Safe Routes to School

Working with San Francisco Unified School District, the Safe Routes To School program will coordinate efforts to ensure all students in San Francisco have safe ways to get to school, whether they are walking and bicycling and increasing the number of families who are choosing to do so. Additionally, this program will support stronger connections between school communities and increase communications with SFMTA's implementing teams to ensure that safety concerns are known and addressed in a timely manner.

Biking and Rolling Events and Event Support

Sunday Streets

Sunday Streets is a program of the nonprofit Livable City presented in partnership with the SFMTA, San Francisco Department of Public Health, and the City and County of San Francisco. During 10 annual events, Sunday Streets reclaims 1-4 miles of car-congested streets and transforms them into temporary open spaces filled with free recreational activities. With a focus on serving communities of concern throughout San Francisco, Sunday Streets encourages physical activity and community building to reduce health disparities citywide and inspire residents to think differently about how their streets can be used as public, community spaces for health and well-being.

Tourist bike/roll support program

As a part of a broader, tourist-focused campaign, develop a program to inform people coming to San Francisco about their many options for visiting highlights in the city by bike,

including maps of the high-quality bike network, bikeshare and scootershare opportunities, bicycle rentals and other resources.

Bicycle/Rolling event access education and outreach

Develop educational outreach materials, campaigns, and requirements for large events, including sporting events, concerts, and conventions, to better encourage bike/roll access to larger venues, such as Golden Gate Park, Chase Center, Oracle Park, Moscone Convention Center, and other venues.

Affordability and access

In working to increase safe streets for people walking and rolling, it's important that we ensure that the safe, low-carbon transportation options are available and accessible for all San Franciscans who want to use them. As new forms of shared transportation and electric bicycles, scooters, etc. are providing broader access to useful options, this plan aims to ensure that no one is left behind due to cost impacts.

Reducing the cost of active transportation

E-Bike Rebates and Leasing

Develop a rebate and lease-to-buy program for e-bikes that provides real access to electric bicycles to qualifying households who want one to ensure that the cost of purchasing an electric bicycle is not a hurdle to getting one.

Lending and Sharing

Adaptive Bikeshare

Started in 2019 as the Adaptive Bikeshare Pilot and made more permanent in 2022, the SF Adaptive Bike Program is available from April through October in Golden Gate Park. Riders with disabilities are able to access adaptive bikes thanks to BORP Adaptive Sports and Recreation, the San Francisco Recreation and Parks Department, the Metropolitan Transportation Commission, and the SFMTA.

Trained staff from BORP, the region's leading provider of accessible recreation and adaptive sports for people with mobility-related disabilities, are on-hand to fit, train and assist riders on how to use the adaptive bikes. The program offers hand cycles, foot trikes and tandem bikes, along with supportive pedals, seats and straps and hand pedals for quad-level SCI (spinal cord injury) riders.

The program runs on Saturdays behind the Music Concourse Bandshell between 10 a.m. and 2 p.m., and bikes are available on a first-come-first-serve basis. Contact cycling@borp.org or (510) 848-2930 for more information.

[SFMTA should look to form a more permanent partnership with MTC, BORP \(or similar organization\) and Recreations and Parks to expand the program to more locations across the city.](#)

Bikeshare

Bikeshare aligns with city goals including Transit First, Vision Zero, and the Climate Action Plan. As more people bike, we reduce congestion, competition for parking, encourage safety in numbers, and reduce externalities from driving related traffic collisions, and emissions. Bikeshare ridership in San Francisco has continued to grow since expansion efforts began in 2017 and in 2024 the system is experiencing all-time highs in ridership.

Bikeshare lowers the barriers to bicycling by removing rider worry related to storage, theft, and maintenance. It also provides a more flexible mobility options since one can bike for part of a trip and use another mode without needing to bring that bike along. Multimodal bikeshare trips are not often discussed, but one effective example is how bikeshare could allow a driver to park farther out from a destination in a congested area, in an area where parking is abundant, and take bikeshare the last mile to the destination. This helps everyone by reducing congestion and allowing the user greater parking options.

The current contract for bikeshare ends in 2027. In the future, the SFMTA should continue to grow bikeshare ridership by developing ways to make it more affordable. A number of combinations for governance and ownership are possible to accomplish this. The SFMTA might decide to own and operate the system; the city could own the system and contract a private servicer (eg non-profit or for-profit), or the city could continue to work with a private partner who owns and operates the system. All options come with benefits and risks, which will need to be assessed as the contract termination approaches.

Scotershare

SFMTA's scootershare and adaptive scooter program teams will continue to coordinate with local and regional partner agencies, managing the review and permitting process for existing and new operators to ensure that as options for scootershare and adaptive scooters in the Bay Area keep expanding they work for the City and County of San Francisco and its residents and businesses.

Community Bike Shops

Support the expansion of options for the purchase and repair of bicycles, etc. including Bike Kitchen-style models as well as supporting the establishment of bike shops in neighborhoods that currently don't have one to ensure that all neighborhoods have access to bikes and bicycle maintenance.

Funding note

The above programs are not easily funded by grants, which typically do not fund on-going program operations and are competitively procured, reducing the ability for funding stability. In adopting this plan, SFMTA's Board acknowledges that pursuing permanent funding from MTC and other local, regional and state sources will be necessary in order to include these programs or that their projected costs will necessitate an agency commitment to provide funding within SFMTA's operating budget in the future to ensure that they are offered.

Appendix E



MEMORANDUM

November 10, 2023

To: Christopher Kidd
Organization: SFMTA
From: Mia Candy, Ellie Gertler, Ellie Fiore, Toole Design
Project: San Francisco Active Community Plan

Re: San Francisco Active Communities Plan – Final Equity Analysis

Introduction, Background, and Context

As part of the Active Communities Plan, the project team seeks to further understand inequities in San Francisco's Active Transportation Network and identify barriers to walking, biking, and rolling in Equity Priority Communities (EPCs). The project team is collecting quantitative and qualitative data to tell a cohesive story about transportation equity in San Francisco. This memorandum presents the *quantitative* equity data and is designed to be used in coordination with qualitative feedback provided during public outreach and EPC Community Workshops. This memorandum summarizes equity-related findings from the Network and Count Analysis, Collision Analysis, Resident Preference Survey (RPS), and Phase 2 Public Survey. To review the full analysis memoranda, including documentation of all data sources visit the project [analysis webpage](#).

This memorandum focuses on, and is organized into, the following sections:

- Key Findings
- Current Bicycle and Micromobility Activity
- Network Coverage and Quality
- Traffic Safety and Enforcement
- Disability and Access
- Neighborhood Profiles for the Six Equity Priority Communities (EPCs)
- Next Steps

This memorandum is one part of the larger Equity Framework, which was vetted by the SFMTA's Office of Racial Equity and Belonging (OREB), the Active Communities Plan Technical Advisory Committee (TAC), and the project community partners. This document will be used in coordination with community workshops to:

- Identify and quantify barriers to bicycling, micromobility, and accessibility in EPCs;
- Identify community needs related to bicycling, micromobility, and accessibility; and
- Inform recommendations for network improvements, policies, and programs in EPCs.

Note: This memorandum consolidates data and graphics from multiple prior analyses and memoranda. As a result, there is some inconsistency in the formatting of figures, maps, and charts.

Key Findings

This section documents key findings related to inequities in San Francisco's bicycle and micromobility activity and trends. To identify inequities, the project team compared trends within EPCs to citywide trends. Where data was available, we also documented differences between demographic groups.

Current Bicycle and Micromobility Activity

- According to the Resident Preference Survey, people living in the EPCs, as well as Black, Indigenous, and People of Color (BIPOC) residents citywide, are less likely to use active transportation devices (bikes, scooters, one-wheels etc.) than San Franciscans in general, but are *more likely to use active transportation devices daily*. The data show that 12% of Black respondents reported using an e-bike daily, compared to just 3% citywide, but this statistic may have a high margin of error, given the small sample size.
- Among EPC residents, there is a greater perception that owning or renting a bike, scooter, or active transportation device is not affordable (22% of respondents feel this way, compared to 17% citywide).
- In addition, 40% of respondents who live in downtown (including SoMa/Tenderloin) report that they have had a bike or scooter stolen – compared to just 29% citywide.
- BIPOC residents and those living in EPCs report that they use the Active Transportation Network in a more utilitarian manner than San Franciscans in general. More EPC respondents are using the network to run errands and commute than for recreation. This finding is consistent with the fact that EPC residents are making daily active transportation trips.
- According to citywide manual counters, between 2018 and 2022, bike and micromobility volumes fell by about a third. Activity in EPCs was consistent with this trend – volumes fell in all EPCs in which there are counters, with Bayview-Hunters Point seeing the largest decline (96% from 2018 to 2022).
- Bicycle and micromobility volumes in EPCs are closely associated with the land use and density conditions in and around the neighborhood. For this reason, SoMa, the Mission District, Western Addition, and Tenderloin have some of the highest rates of bike commuting and micromobility use in the city. In some cases, these neighborhoods out-perform the city as a whole.
- In contrast, Bayview-Hunters Point and Outer Mission/Excelsior have some of the lowest rates of bike activity. Low bike commuting in the Outer Mission/Excelsior and Bayview-Hunters Point is likely also a result of land use patterns – people live too far from their jobs to make biking an attractive option. In these same neighborhoods, bike commuting is low *even for households without cars*, suggesting that residents likely use transit as their primary commute mode.
- Some of the highest-volume micromobility corridors run through EPCs, including Market Street (Tenderloin and SoMa) with 900 trips per day, Valencia Street (Mission District) with 500 trips per day, and Polk Street (Tenderloin) with 400 trips per day.
- In contrast, micromobility ridership is low in the south and west of the city, despite Bay Wheels policies that specifically incentivize ridership in those service areas. For example, Bayview-Hunters Point has bikeshare stations and is within the designated service area but has a relatively low volume (less than 40 average daily rides).

Network Coverage and Quality¹

- Slow Street installation is not evenly distributed throughout the city, and there are fewer miles of Slow Streets in EPCs than the city as a whole. The physical distribution of Slow Streets across the city seems to have an impact on resident use and perception. According to the Resident Preference Survey, only a third of EPC residents have used a slow street, compared to more than half of residents citywide. EPC residents also report lower comfort levels on Slow Streets than San Franciscans at large. As part of the Active Communities Plan, SFMTA is working with EPCs to explore opportunities for and concerns about implementing Slow Streets in EPCs.
- Bike parking is concentrated in the city's dense, urban northeast: In the Tenderloin, SoMa, and Mission District EPCs bike parking is densely distributed. In other EPCs, bike parking is concentrated along neighborhood commercial corridors, with little available on residential streets.
- Results from the Resident Preference Survey indicate that EPC residents report being less aware of safe places to store their active transportation devices (35%) than San Franciscans in general (41%).
- The project team measured *network coverage* as the percent of street centerline miles that have bike facilities. Citywide, network coverage is 24%. EPCs that overlap with San Francisco's dense, urban center have high network coverage, including SoMa (36%), the Mission District (30%), and Tenderloin (28%). In contrast, network coverage is relatively low in low-density neighborhoods such as Excelsior (9%). Western Addition/Fillmore has relatively low network coverage (19%), despite being located in the city's dense northeast quadrant.
- The project team measured *high-quality network coverage* as the percent of street centerline miles that have Slow Streets, Class I Paths, or Class IV Bike Lanes. Of the EPCs, SoMa has the highest share (22%) of centerline miles with high-quality facilities. This far exceeds the citywide average of 8%. Bayview-Hunters Point and Outer Mission/Excelsior have lower-than-average quality network coverage. Western Addition/Fillmore has *zero* high-quality facilities – there are no separated bikeways, bike paths, slow streets, or car-free streets within the formal neighborhood boundaries.

Network Comfort¹

- In the six EPCs studied, existing network facilities tend to have low to moderate Bicycle Comfort Index scores. Exceptions to this rule include Shotwell Slow Street in the Outer Mission ("very high" comfort) and the Class II and Class III facilities on Steiner Street, McAlister Street, and Fulton Street in the Western Addition (which score "high"). In Bayview-Hunters Point, the sections of Hunters Point Boulevard and Bayshore Boulevard that have Class IV Protected Lanes also score "high" on the BCI scale.
- People living in EPCs have very similar preferences about facility type as those living in non-EPC neighborhoods. San Franciscans—whether living in an EPC or not—seem to agree that the most comfortable facilities are those with physical protection from vehicles, including Class IV Bike Lanes and Car-Free Streets.
- There is also agreement that the least comfortable conditions are streets where bikes and cars share the same lane, and on busy commercial or transit streets.

¹ The data presented in this section is based on the [June 2023 Network Analysis](#). The analysis is based on the January 2023 network, which was the most recent network data available at the time of analysis. Facilities constructed since January 2023 are not included in this analysis.

- Despite this consistency, the data also show that, overall, people living in EPCs have slightly lower levels of comfort on all Active Transportation Network facility types. In EPCs, 25% of respondents reported feeling uncomfortable on, or unable to use, the ATN, compared to 20% citywide.
- Higher rates of discomfort were reported by people with disabilities (26% feel uncomfortable), older adults (25% of men over 50 and 30% of women over 50), and people identifying as Asian or Pacific Islander (AAPI – 23%).

Traffic Safety and Enforcement

- Black bicyclists and drivers are substantially overrepresented in crashes. Census data show that Black residents make up 5% of San Francisco’s population but accounted for 9.6% of all bicycle crash victims and 8.6% of fatal and serious injury (KSI) bike victims, pre-pandemic. During the pandemic, these figures rose – Black bicyclists were involved in 11% of all bike crashes and 11.5% of KSI bike crashes.
- Between 2017 and 2021, slightly more than half (55.2%) of the total reported bicyclist and micromobility crashes occurred outside of EPCs. These crashes also tended to be more severe than the crashes within EPCs.
- As expected, bicyclist and micromobility crashes throughout San Francisco are concentrated along the High Injury Network (HIN): 67% of all crashes and 62.3% of KSI crashes occur on the HIN. This concentration is more pronounced in EPCs: In EPCs, nearly 81% of all crashes and 80% of KSI crashes occurred along the HIN.
- Consistent with citywide crash violations, the top three reported violations for KSI crashes within EPCs include *unsafe speed for conditions* (26.5%), *disregard red signal* (11.2%), and *unsafe turn or lane change* (10.2%).
- Citations for both bike and scooter-related incidents are concentrated in high-density, high-volume neighborhoods, which overlap with the Tenderloin, SoMa, and Mission District EPCs.
- As part of the Phase 2 Public Survey, almost 74% of respondents (n = 1120) said they would like to see better behavior and safety habits by road users. As part of this response, roughly 80% (n = 882) of participants said that traffic enforcement is a high priority. Notably, among BIPOC respondents, that percent is lower at 74%.

Disability and Access

- Overall, people with disabilities are less comfortable on the Active Transportation Network than San Franciscans overall: 26% of people with disabilities report being uncomfortable on or unable to use the network, compared to just 20% citywide.
- In general, people with disabilities prefer to use facilities that provide some protection from cars – this is consistent with citywide preferences. Compared to citywide preferences, people with disabilities report higher levels of comfort on separated bike lanes and slow streets.
- According to Resident Preference Survey results, people with disabilities report higher rates of theft of their active transportation devices than San Franciscans at large (43% compared to just 25% citywide). Note that this statistic may have a high margin of error, given the small sample size.
- People with disabilities are less likely to be aware of safe places in San Francisco to park a bike, scooter, or other mobility device (just 33% report knowing of safe parking spaces, compared to 43% citywide).
- People with disabilities are also less likely to agree that owning or renting a bike, scooter, or other active transportation device is affordable in San Francisco (44% agree, compared to 48% citywide).

Current Bicycle and Micromobility² Activity

Key Question: Are there measurable differences in bike and micromobility activity between EPCs and other San Francisco neighborhoods? Are there differences in activity between different demographic groups?

To analyze bicycle and micromobility activity, the project team used data from the Network and Count Analysis, the Resident Preference Survey (RPS), and the Phase 2 Public Survey. Data sources include the 2021 American Community Survey (ACS) 5-Year Estimates, the city’s 22 electronic bike counters, manual counts on 25 Slow Streets and at 13 quick-build locations, micromobility data from the service providers (Bay Wheels [Lyft], Lime, Bird, and Spin), and volume estimates from Replica, an activity-based travel demand model.

What active transportation devices are being used, how frequently, and how are different groups and neighborhoods using them?

As part of the RPS, the project team asked respondents how frequently they use active transportation devices, including bicycles (electric and manual); scooters (electric and manual); assisted mobility devices (such as powerchairs), and skateboards, one-wheels, or hoverboards. Compared to the city at large, residents living in Equity Priority Communities (EPCs) have lower rates of active transportation device usage (34% in EPCs compared to 47% citywide). However, the data on *daily* usage tells a different story: in EPCs, 5% of residents report using a bicycle every day, compared to 4% citywide. Daily usage of scooters, skateboards, e-bikes and other micromobility is very similar in EPCs to the city at large. Similarly, while white respondents report more use of active transportation devices overall, Black respondents report more *daily* use of active transportation devices. Compared to the city as a whole, Black respondents report higher daily usage rates of all modes except walking. The data shows that 12% of Black respondents reported using an e-bike daily, compared to just 3% citywide, but this statistic may have a high margin of error, given the small sample size. The fact that Black respondents use *almost all modes* more on a daily basis, including driving and taking transit, suggests that this demographic group may have commitments that require daily travel outside of the home at a greater rate than other demographic groups.

Table 1: Daily Active Transportation Device Use (Source: Active Communities Plan Resident Preference Survey)

Device/ Mode	Citywide	EPCs	People with a Disability	Race/ Ethnicity				
				AAPI	Black	His./ Lat.	Other	White
Bike (Manual)	4%	5%	6%	2%	6%	6%	5%	4%
Bike (Electric)	3%	3%	5%	-	12%	3%	6%	4%
Scooter (Manual)	3%	2%	5%	1%	8%	1%	1%	5%
Scooter (Electric)	3%	3%	6%	1%	7%	3%	5%	5%
Other Micromobility	2%	1%	7%	-	9%	3%	1%	4%
Transit	22%	38%	27%	20%	31%	26%	14%	21%
Walk	56%	56%	53%	48%	49%	65%	56%	60%
Drive	22%	21%	18%	20%	31%	26%	14%	21%

Highlighted figures are 3%+ greater or lower than citywide average.

² The Bay Area’s Metropolitan Transportation Commission (MTC) defines micromobility as “ways of getting around that are fully or partially human-powered — such as bikes, e-bikes and e-scooters and mobility-assistance devices/wheelchairs. Most commonly, micromobility vehicles do not exceed 15mph.” Other micromobility devices that are common in San Francisco are skateboards, electric skateboards, and one-wheels.

What trip types is the Active Transportation Network used for, and how do trip types differ between demographic groups and neighborhoods?

Bicycle Commuting

Bike commuting in San Francisco is concentrated in the city’s dense urban center, near Downtown and the Financial District, and is likely due to the density and proximity between people, housing, and jobs, relatively flat topography, and proximity to bike facilities. The project team found that EPCs in and around the city center (SoMa, Mission, Western Addition, and Tenderloin) had higher rates of bike commuting than the city as a whole (greater than 3.1%). Relatively low bike commuting in the Outer Mission/Excelsior and Bayview-Hunters Point is likely a result of land use patterns – people live too far from their jobs to make biking an attractive option. In these same neighborhoods, bike commuting is low *even for households without cars*, suggesting that residents likely use transit as their primary commute mode³. Figures 1 and 2 show that there is no direct correlation between low vehicle ownership and high bike commute rates, except where overall density makes bike commuting easy and attractive.

Compared to the city at large, Hispanic/ Latino/a/x respondents are more likely to say that they would use the Active Transportation Network (ATN) to go to work or school. While 42% of all survey respondents say they use the ATN to go to work – this figure is 56% amongst Hispanic/Latino/a/x respondents. While only 14% of survey respondents say they use the ATN to go to school, this figure is 28% amongst Hispanic/ Latino/a/x respondents. More broadly, residents of the six EPCs report using the Active Transportation Network in a more utilitarian manner than San Franciscans in general. More EPC respondents are using the network to go to work, go to school, or to run errands than for exercise or recreation (See Figure 3). This is consistent with the data that shows BIPOC residents are more likely to use active transportation devices *on a daily basis* than San Franciscans at large.

Figure 1: 2021 Bike Commute Mode Share

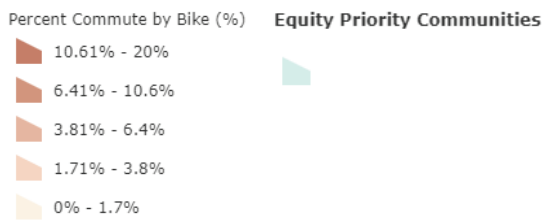
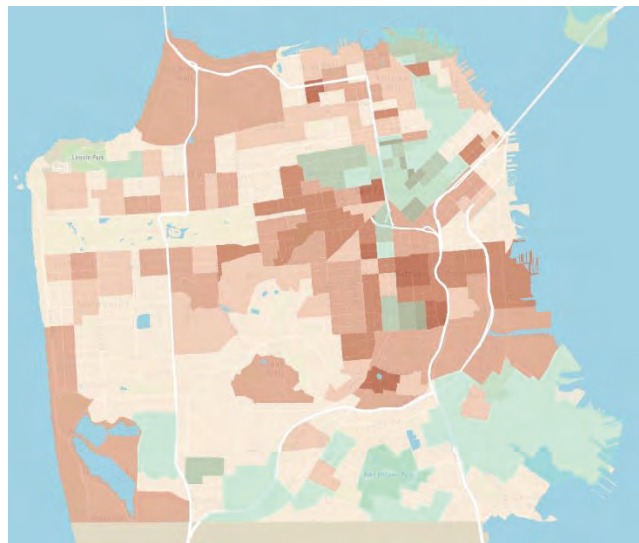
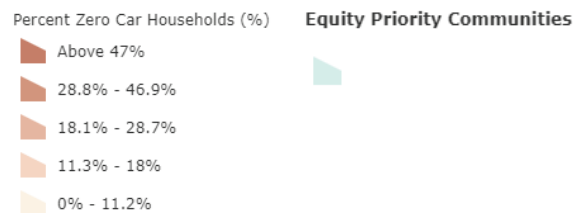
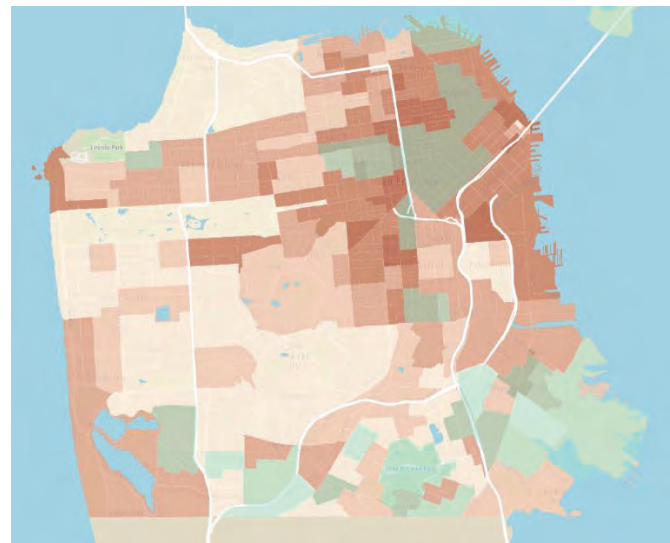
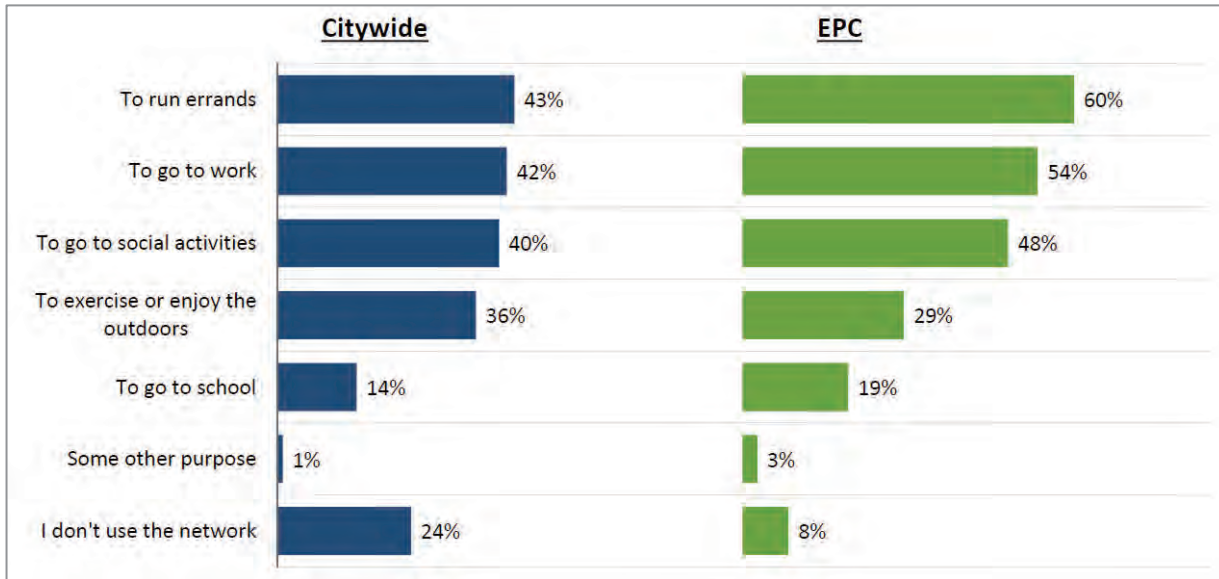


Figure 2: 2021 Zero Vehicle Households



³ Census data captures only the primary commute mode. Intermodal trips – such as trips by residents who bike and the take bus in one trip – are not reflected in the analysis.

Figure 3: Active Transportation Network Trip Purpose: Citywide vs EPCs (Source: ACP Resident Preference Survey)



Bicycle and Micromobility Activity Combined – All Trip Purposes

To measure overall bicycle and micromobility activity, the project team used data from 22 manual bike counters, bike volume counts for 25 slow streets (collected during 2022), bike volume counts for 13 streets before and after quick-build installations, and estimated volumes from Replica, an activity-based travel demand model.

According to the manual bike counters, between 2018 and 2022, bike and micromobility volumes fell by about a third. Bike activity in EPCs was consistent with this trend – volumes fell in all EPCs in which counters exist, with Bayview-Hunters Point seeing the largest decrease of 96%. This is in stark contrast to non-EPC neighborhoods in the Richmond, Sunset, Potrero Hill, and Russian Hill, where bike activity increased by 120%.

The city also tracks bike activity on Slow Streets, which provides an indication of how Slow Streets are performing in different neighborhoods, including EPCs. Slow Street installation is not evenly distributed throughout the city, and there are fewer miles of Slow Streets in EPCs than the city as a whole. The highest-volume Slow Streets (Clay Street, Lake Street, and Page Street) are outside of EPCs, except for Shotwell Street in the Mission. Slow Streets in the Outer Mission/ Excelsior and Bayview-Hunters Point are amongst the lowest volume Slow Streets, which may be due to land use and overall density in the area.

The physical distribution of Slow Streets across the city seems to have an impact on resident use and perception. According to the Resident Preference Survey, only a third of EPC residents have used a Slow Street (32%), compared to more than half of residents citywide (51%). EPC residents also report slightly lower comfort levels on Slow Streets than San Franciscans overall (EPCs have a mean comfort score of 3.51 out of 5 on Slow Streets compared to a citywide mean comfort score of 3.62 out of 5).

Table 2: Self-Reported Slow Street Use and Comfort (Source: ACP Resident Preference Survey)

Slow Street Performance Metric	Citywide	EPCs
Percent of residents who report having walked, biked, or rolled on one of San Francisco's designated Slow Streets	51%	32%
Self-reported level of comfort using San Francisco's Slow Streets. Comfort is scored on a scale from 1 (low comfort) to 5 (high comfort)	3.62	3.51

Micromobility Activity

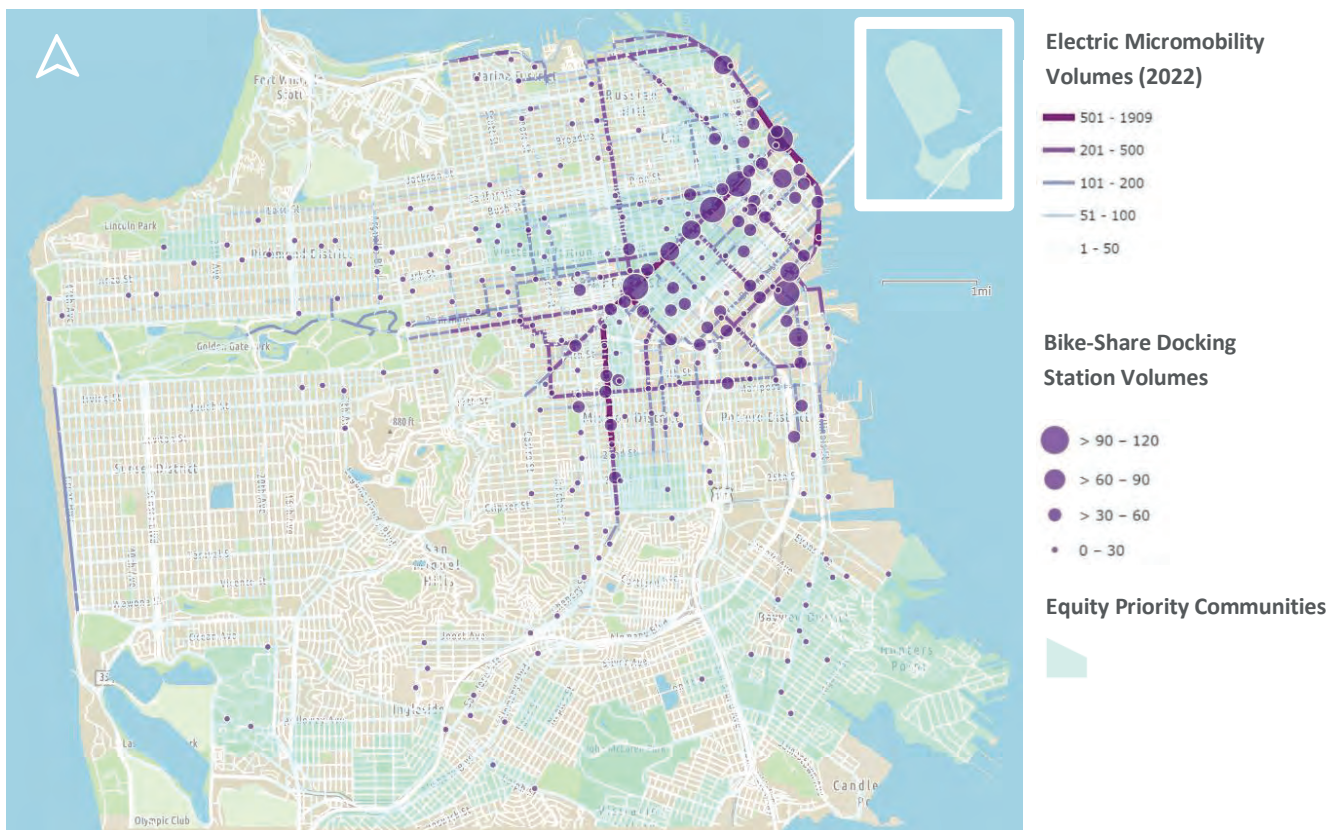
The project team measured micromobility using data provided by service providers including Lyft (Bay Wheels), Lime, Bird, and Spin. Figure 4 illustrates volumes in relation to EPC Boundaries. Micromobility activity is concentrated in the northeast area of the city, especially in Downtown and the Financial District, and is particularly high along key commercial corridors and in dense urban areas. Micromobility activity is low in the southern portion of the city. Specific streets with high micromobility ridership include:

- Market Street (Tenderloin and SoMa EPCs) - approximately 900 trips per day
- Valencia Street (Mission EPC) - approximately 500 trips per day
- Polk Street (Tenderloin EPC) - approximately 400 trips per day
- Embarcadero – approximately 1,800 trips per day

These specific areas likely see higher rates of micromobility use due to the density of people, jobs, and destinations, and because they offer direct and convenient links between destinations. Micromobility ridership is low in the south and west of the city, despite Bay Wheels policies that specifically incentivize ridership in those service areas⁴. For example, Bayview-Hunters Point has bikeshare stations and is within the designated service area but has a relatively low volume of less than 40 average daily rides. Low ridership is likely due, in part, to relatively low network coverage in these neighborhoods, as well as land use patterns – destinations are further away and require longer trips, making micromobility a less attractive option to residents.

Micromobility use is also associated with quality of network facilities. Facilities with protection from cars – protected bike lanes – have the highest ridership per centerline mile than any other facility type. Ridership per centerline mile increases as protection from cars increases. This suggests that upgrading and improving network coverage and facilities could lead to higher rates of micromobility use.

Figure 4: Micromobility Activity and Equity Priority Communities



⁴ Bay Wheels policy incentivizes ridership in the south and east of San Francisco via two incentive structures: 1) In south and west services areas, there is no penalty for parking the bike outside of a docking station. 2) In Outer Richmond, Hunters Point and other select neighborhoods, the per-minute price is capped at \$2 for members. Maps of the incentive pricing are available in the [Network Analysis Memorandum](#).

Network Coverage and Quality

Key Question: Are there measurable differences in network coverage and quality between EPCs and other San Francisco neighborhoods?

How does network coverage differ between EPCs and the city at large?

The project team measured *network coverage* as the percent of street centerline miles⁵ that have bike facilities. Citywide, network coverage is 24%. EPCs that overlap with San Francisco’s dense, urban center have high network coverage, including SoMa (36%), the Mission (30%), and Tenderloin (28%). In contrast, network coverage is relatively low in low-density neighborhoods such as Excelsior (9%). Western Addition/Fillmore has relatively low network coverage (19%), despite being located in the city’s dense northeast quadrant.

Table 1: Network Coverage and Network Quality Citywide vs. Equity Priority Communities

Neighborhood*	Network Coverage		Network Quality	
	Percent of Centerline Miles with Bike Facilities	Percent of Centerline Miles with High-Quality Facilities	Percent of Network that is High-quality	
Citywide Average	24%	8%	28%	
Bayview-Hunters Point	23%	5%	21%	
Outer Mission/	32%	7%	21%	
Excelsior	9%	2%	16%	
Mission District	30%	8%	28%	
SoMa	36%	22%	61%	
Tenderloin	28%	10%	38%	
Western Addition/ Fillmore	19%	0%	0%	

How does network quality differ between EPCs and the city at large?

The project team measured *high-quality network coverage* as the percent of street centerline miles that have slow streets, Class I Paths, or Class IV Bike Lanes. High-quality facilities generally provide a more comfortable experience for users than pavement markings. Of the EPCs, SoMa has the highest share (22%) of centerline miles with high-quality facilities. This far exceeds the citywide average of 8%. Bayview-Hunters Point and Outer Mission/Excelsior have lower than average quality network coverage. Western Addition/Fillmore has zero high-quality facilities – there are no separated bikeways, bike paths, slow streets, or car-free streets within the formal neighborhood boundaries. Quality network coverage in each EPC is visualized in Figure 4.

⁵ Centerline miles measure the length of a street, in miles, regardless of the number of lanes or the direction of travel. A one-mile street with one lane of traffic in each direction is one centerline mile. In contrast, ‘lane miles’ measures the total mileage of all lanes on a street. A one-mile street with one lane of traffic in each direction (ie two total lanes) is two lane miles.

Figure 4: High-Quality Facilities and Project Equity Priority Community Boundaries*



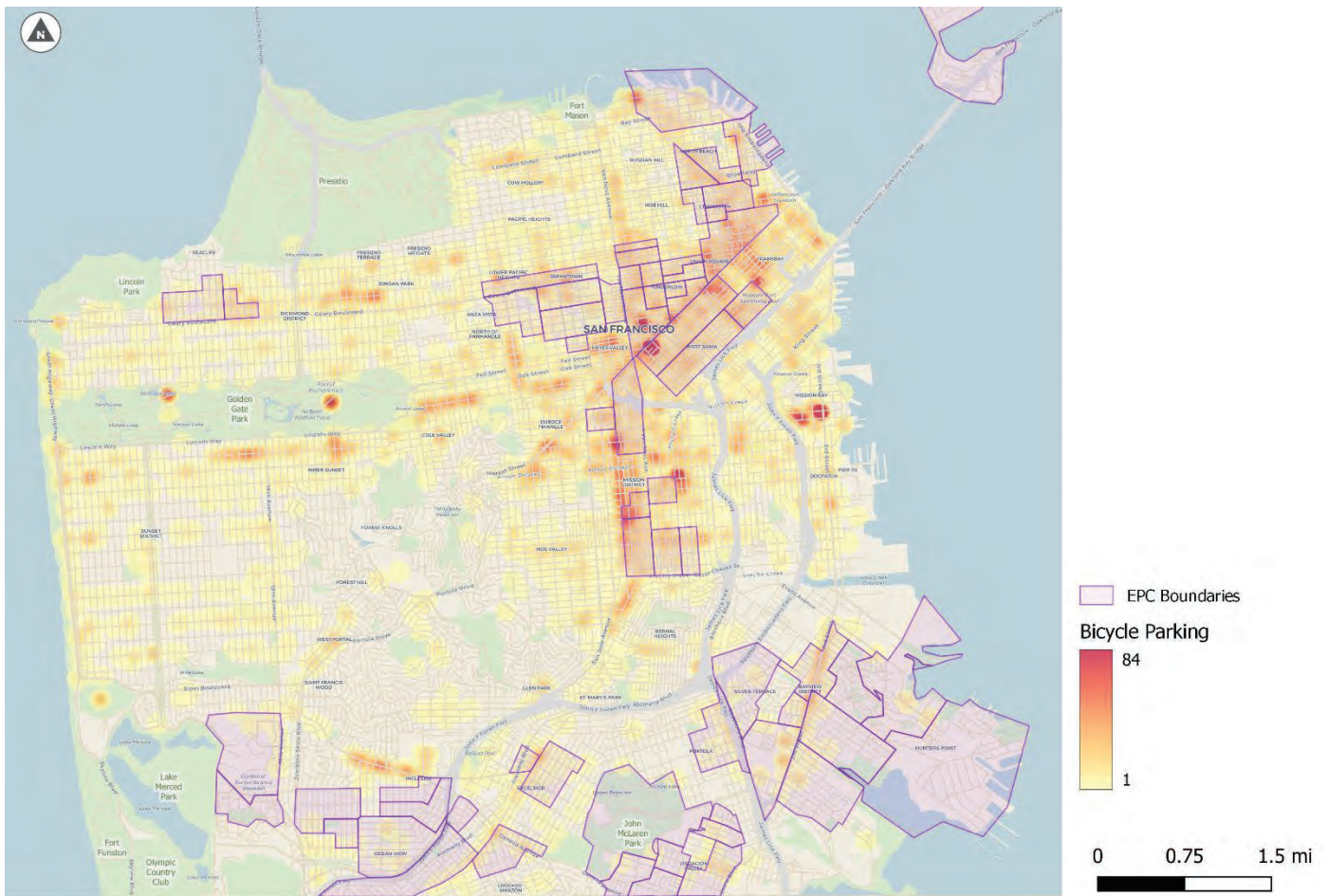
**Note: This map shows the six Equity Priority Communities (EPCs) selected for analysis as part of the San Francisco Active Communities Plan (SF ACP). These neighborhoods are part of a longer list of Equity Priority Communities identified by the Metropolitan Transportation Commission. Figure 5 shows all EPCs in San Francisco.*

How does bike parking coverage differ between EPCs and the city at large?

The project team also evaluated the distribution of bike parking across the city. Availability and quality of bike parking can be an indicator of overall network quality – plentiful bike parking may encourage ridership, while lack of bike parking at key destinations may discourage active transportation mode choice. Figure 5 shows the distribution of bike parking locations throughout the city, overlaid on the EPC boundaries.

Bike parking is concentrated in the city’s dense, urban northeast: In the Tenderloin, SoMa, and Mission EPCs bike parking is dense and distributed. In other EPCs, bike parking is concentrated along neighborhood commercial corridors, with little available on residential streets. Specifically, in the Outer Mission/Excelsior and Bayview-Hunters Point, bike parking is sparse, and located primarily along major streets and where commercial activity is present. In addition to this physical distribution, results from the Resident Preference Survey indicate that EPC residents report being less aware of safe places to store their active transportation devices (35%) than San Franciscans in general (41%).

Figure 5: Bicycle Parking Locations (Heat Map) and Equity Priority Communities



How does bicycle comfort differ between EPCs and the city at large?

One metric of network quality is how comfortable facilities are for users. The project team measured network comfort in two ways:

1. The Bicycle Comfort Index (BCI) is a quantitative measure of comfort on every street in San Francisco, based on the January 2023 network*. Comfort is composed of three subscores:
 - a. Context, including land use, pavement quality, reported behavioral violations, and slope
 - b. Traffic, including Level of Traffic Stress (LTS), heavy vehicle traffic, and curbside turnover
 - c. Bike Infrastructure, including the type of facility, intersection, or signalization
2. The Resident Preference Survey (RPS) and Phase 2 Public Survey measured qualitative comfort on different facilities by asking residents to rank facilities on a scale from 1 (low comfort) to 5 (high comfort)

How do Bicycle Comfort Index scores differ between EPCs and the city at large?

Figure 6 depicts the January 2023 BCI scores for all city streets. Medium-to-high-comfort streets tend to be concentrated in flat, low-density, residential neighborhoods. Slow Streets also score very high on the BCI scale. Low-comfort streets are concentrated in dense urban areas, specifically in downtown, along major arterials, and in areas with significant elevation. BCI scores in the EPCs are determined largely by their surrounding contexts: comfort is high on quiet, residential streets, and comfort is low on busy commercial corridors. The following is a summary of the January 2023 BCI scores for the bike network facilities in each EPC (See Figure 7):

- **Bayview-Hunters Point:** Most network facilities, including those on 3rd Street and Oakdale Avenue are rated low-comfort.
- **SoMa:** Most network facilities are rated medium-comfort, but Market Street is rated as low-comfort.
- **Mission District:** Network facilities score relatively high, especially on Shotwell Slow Street which has very high comfort scores.
- **Outer Mission/ Excelsior:** Most network facilities are rated low-to-medium, with the exception of Cayuga Slow Street which has a “very high” BCI score
- **Tenderloin:** Most network facilities are rated as low or very low comfort.
- **Western Addition/ Fillmore:** BCI scores are mixed with moderate-to-high-comfort facilities on Steiner Street, McAlister Street, and Fulton Street, and less-comfortable facilities in the north of the neighborhood on Post Street and Sutter Street.

Figure 6: Citywide Bicycle Comfort Index (January 2023*)

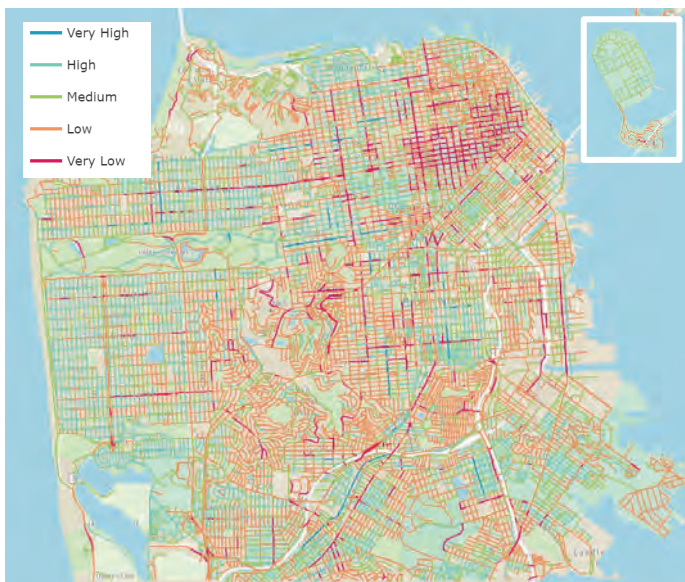


Figure 7: Bicycle Comfort Index on Existing Facilities (January 2023*)



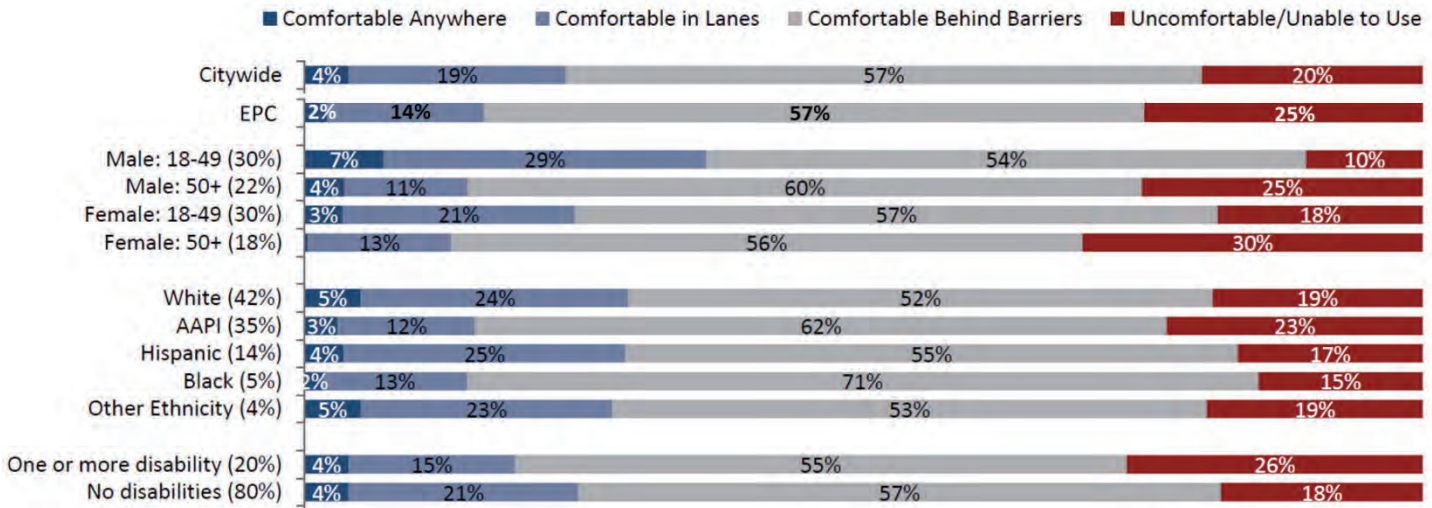
Equity Priority Communities

*The project team calibrated the Bicycle Comfort Index scores based on community input in August 2023. Updated results will be available in the project Storymap and Draft Plan.

How does perceived level of comfort differ between EPCs and the city at large?

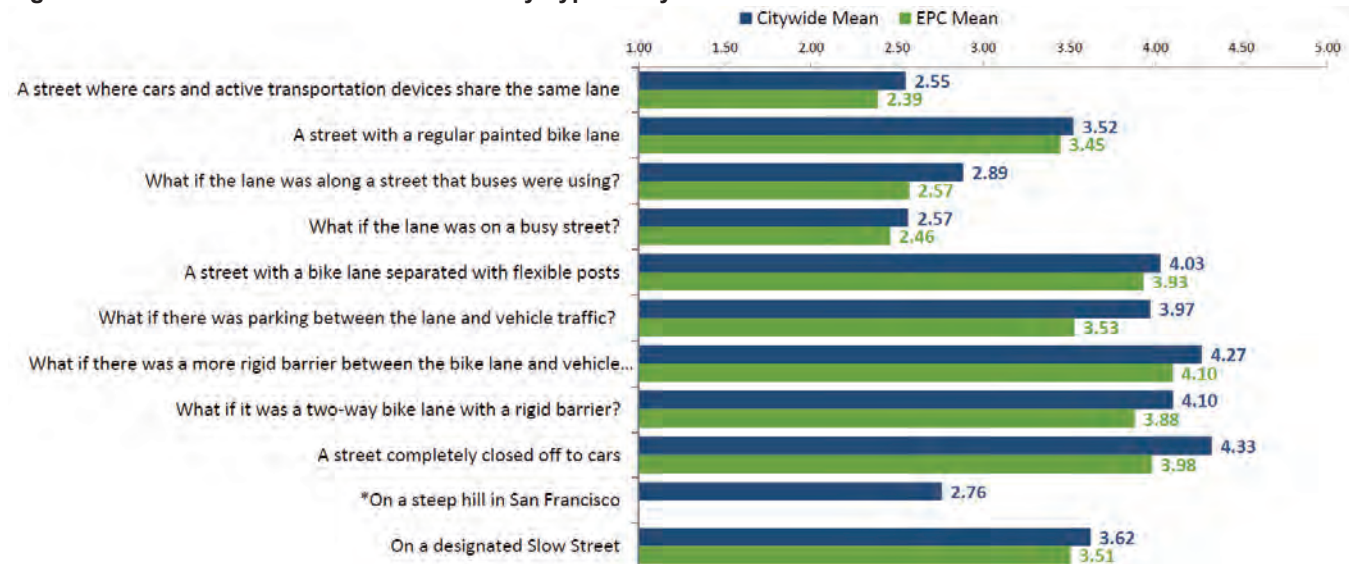
As part of the RPS, the project team evaluated how comfortable different groups of people are when using the active transportation network. Figure 8 documents different comfort levels in EPCs and among demographic groups, compared to the city at large. Overall, people living in EPCs feel less comfortable using the active transportation network than the residents citywide. In EPCs, 25% of respondents reported feeling uncomfortable on, or unable to use, the ATN, compared to only 20% citywide (Figure 8). We also found higher rates of discomfort amongst people with disabilities (26% feel uncomfortable), older adults (25% of men over 50, and 30% of women over 50), and people identifying as Asian or Pacific Islander (23%).

Figure 8: Overall Level of Comfort on the Active Transportation Network: Citywide vs EPCs and Demographic Groups



Responses show that people living in EPCs have very similar preferences about facility type as those living in non-EPC neighborhoods. San Franciscans--whether living in an EPC or not--seem to agree that the most comfortable facilities are those with physical protection from vehicles, including Class IV Bike Lanes and Car-Free Streets. There is also agreement that the least-comfortable conditions are streets where bikes and cars share the same lane, and busy commercial or transit streets. Despite this consistency, the data also shows that overall, people living in EPCs have slightly lower levels of comfort on all facility types. Figure 10 shows mean level of comfort in each condition, on a scale from 1 (low comfort) to 5 (high comfort) for both EPCs and the city at large.

Figure 8: Level of Comfort on Different Facility Types: Citywide vs EPCs



Traffic Safety and Enforcement

Key Question: How do crashes involving people biking or riding scooters impact EPCs and BIPOC in San Francisco?

To analyze traffic safety conditions in EPCs compared to the city overall, the project team used data from the Collision Analysis, the Resident Preference Survey (RPS), and the Phase 2 Public Survey. Collision data was analyzed for the five-year period from 2017 to 2021, and was also disaggregated into the pre-pandemic period (2017-2019) and the pandemic period (2020-2021). Collision, party, and victim data were pulled from DataSF open data portal, which queries the crash data from TransBASE.sfgov.org.

Are there any inequities in the distribution of crashes across demographic groups?

Both before and during the pandemic, Black bicyclists and drivers are substantially overrepresented in crashes. Census data show that Black residents make up 5% of San Francisco’s population but accounted for 9.6% of all bicycle crash victims and 8.6% of KSI bike victims, pre-pandemic. During the pandemic, these figures rose – Black bicyclists were involved in 11% of all bike crashes and 11.5% of KSI bike crashes. Additional research is needed to better understand travel behaviors and mode preferences or usage for each race.

Disclaimer: Party race is based on law enforcement officers’ assumptions or visual impressions, which can be problematic and inaccurate. Additionally, there are only five racial categories (excludes “Not Stated”) within the crash data, in contrast to the US Census, which has nearly twice as many race and ethnicity categories. The victim representation and comparison made to the San Francisco population should be interpreted with caution given these reporting shortcomings.

How do crashes differ between EPCs and the city at large?

Both the High Injury Network (HIN) (Figure 9) and collisions (Figure 10) are concentrated in dense urban areas in the northeast of the city, which overlaps with the neighborhood boundaries of Tenderloin, Western Addition, SoMa, and Mission District. This trend is largely due to higher levels of exposure (locations with higher bicycle volumes have higher bicycle crashes). Slightly more than half of the total reported crashes (2,432 or 55.2%) occurred *outside of EPCs and tended to be more severe than the crashes within EPCs* (Table 2).

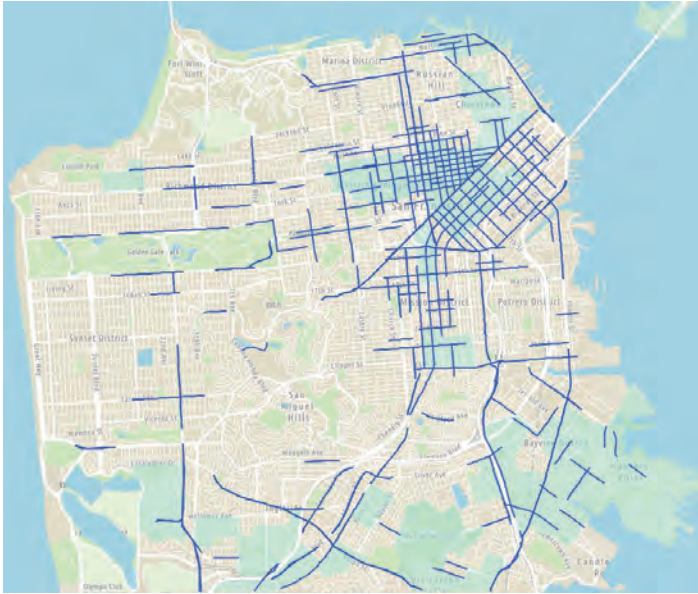
As expected, bicyclist and micromobility crashes throughout San Francisco are concentrated along the HIN: 67% of all crashes and 62.3% of fatal and serious injury (KSI) crashes occur on the HIN. This concentration is more pronounced in EPCs: In EPCs, nearly 81% of all crashes and 80% of KSI crashes occurred along the HIN. There are several potential factors that may influence this concentration of crashes. One factor might be related to bicyclists riding along a smaller number of streets, increasing the volume along those streets, resulting in a higher crash frequency. Another potential factor might be related to systemic safety issues within these communities that increase bicyclist risk along the HIN or expose bicyclists to greater risk due to a higher ratio of HIN streets to non-HIN streets. Acquiring comprehensive bike counts within EPCs can help better understand bicyclist exposure and estimate crash risk within these communities.

Table 2: Bicyclist crashes by Equity Priority Community, 2017-2021

EPC	# Crashes	% Crashes	# KSI	% KSI	% Crashes resulting in KSI	Avg. EPDO*
Not within EPC	1,342	55.2%	138	58.5%	10.3% (of crashes outside EPCs)	23.2
Within EPC	1,090	44.8%	98	41.5%	9.0% (of crashes within EPCs)	19.8
Total	2,432	100.0%	236	100.0%	9.7% (of all crashes)	21.7

*Severity is measured by an Equivalent Property Damage Only (EPDO) score that indicates the estimate cost of the crash. For details on how EPDO is calculated, see the Collision Analysis Memorandum or [USDOT Federal Highway Administration Safety Toolkit](#)

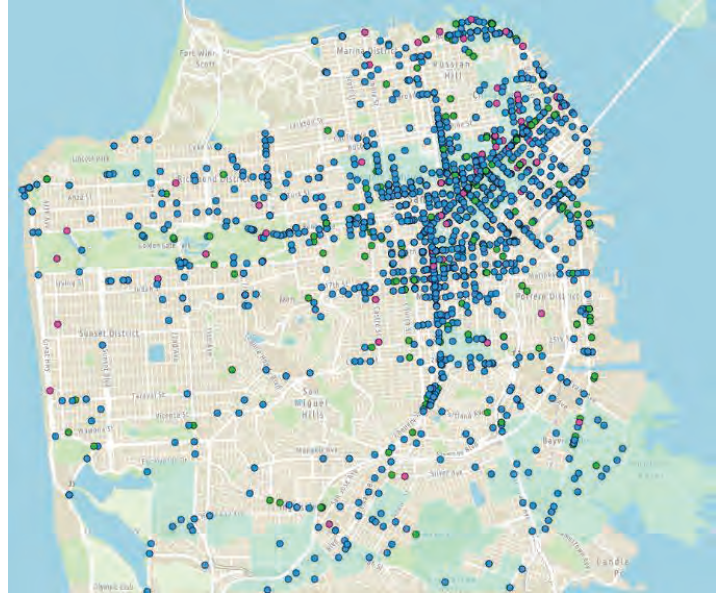
Figure 9: 2022 High Injury Network



2022 High Injury Network Equity Priority Communities



Figure 10: 2017-2021 Crashes by Mode



2017 - 2021 Crashes Equity Priority Communities

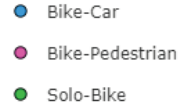
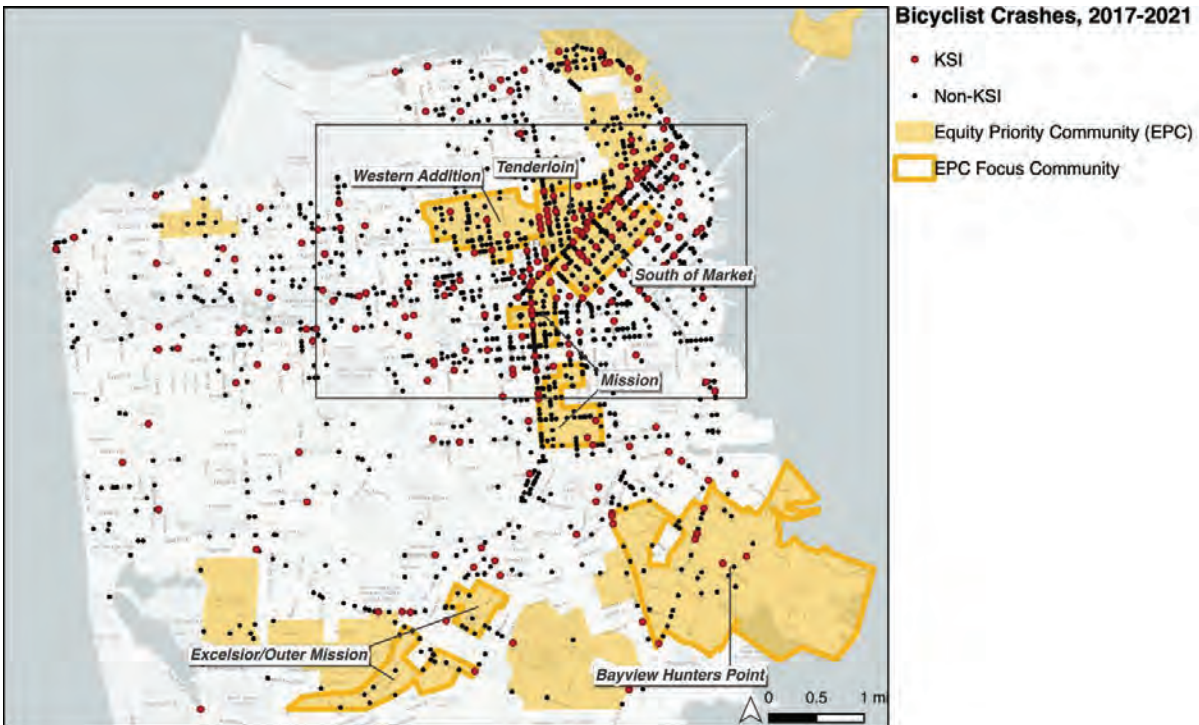


Figure 11: Fatal and Serious Injury (KSI) Crashes (2017-2021) and Equity Priority Community Boundaries*



*This map shows all of the MTC-defined Equity Priority Communities (yellow fill), as well as the six Active Community Plan focus EPCs (yellow outline).

Do reported traffic violations differ between EPCs and the city at large?

The project team found that reported traffic violations are similar between EPCs and the city at large. The top three reported violations for KSI crashes within EPCs include unsafe speed for conditions (26.5%), disregard red signal (11.2%), and unsafe turn or lane change (10.2%). Excluding “unknown” violation types, these are also the top three reported violations for crashes that occurred outside of EPCs.

How do citations differ between EPCs and the city at large?

The project team looked at citywide citation data from 2017 to present. Citations for both bike and scooter-related incidents are concentrated in high-density, high-volume neighborhoods, which overlap with the Tenderloin, SoMa, and Mission District EPCs. Although adjacent to high-density and high-volume neighborhoods, bike and scooter-related citations in the Western Addition are relatively low compared to neighboring EPCs. Citations are also relatively low in Bayview Hunters-Point, and the Outer Mission/ Excelsior, where overall density and volumes are lower. Parking citations far outweighed riding and permit citations, which could indicate that the city lacks adequate parking facilities for bikes and scooters, especially for shared devices.

Additionally, the RPS asked respondents about their perceptions of traffic law adherence amongst bike and scooter users. Citywide, 41% of respondents feel that people using bikes and scooters do not follow traffic laws. This perception is lower in EPCs – a third of EPC respondents (31%) said that they feel that people using bikes and scooters do not follow traffic laws. During Phase 3 engagement, the project team asked community members what they need to bike, scoot, or roll more in San Francisco. Almost 1,000 people said they would like to see better behavior and safety habits by road users. As part of this response, roughly 80% of all participants said that traffic enforcement is a high priority, while only 74% of BIPOC respondents indicate this as a high priority.

Disclaimer: Because of the deep, complex history of policing and enforcement in BIPOC communities, it is important to consider this input with a critical lens. As part of the next round of community workshops, the project team will work with CBO partners to ensure residents have the space to express their needs, concerns, or priorities related to enforcement and policing in their neighborhoods.

Disability and Access

Key Question: How do people with disabilities use and experience the active transportation network, and how does their experience differ from people without disabilities?

The project team explored the relationship between the Active Transportation Network and disability access via the Resident Preference Survey (RPS) and Phase 2 public survey. Twenty percent of RSP respondents identified as having one or more disability (n=80). Fifteen percent of all public survey respondents (n=252) are people with disabilities (15%).

What types of active transportation activity is most common among people with disabilities?

Of the people that completed the RPS, 18% of respondents reported using an assisted mobility device, including a manual wheelchair, powerchair or electric wheelchair, or mobility scooter. People with disabilities report using their devices on a daily basis at higher rates than those without disabilities (20% compared to 7% - See Table 3). Compared to people without disabilities, people with disabilities report:

- Slightly lower rates of driving (82% of people with disabilities drive at least once a month compared to 86% of people without disabilities);
- Similar rates of using transit, walking, and biking;
- Slightly higher rates of using e-bikes and scooters; and
- Substantially higher rates of using other devices (25% compared to 15%)

The reasons that people with disabilities use the active transportation network mirror citywide results – much like the city at large, San Franciscans with disabilities use the network to travel to school, to run errands, and to go to social activities. There are some differences in how the network is used including:

- People with disabilities report lower rates of commuting to work via the ATN (35% compared to 43% of people without disabilities)
- People with disabilities report lower rates of using the ATN for exercise or to enjoy the outdoors (30% compared to 38%)
- People with disabilities report slightly higher levels of participation in encouragement events such as Bike to Work Day and Sunday Streets

Table 3: Resident Preference Survey Responses - People with Disabilities vs People without Disabilities

Resident Preference Survey Outputs/ Key Metrics	People with Disabilities	People without
Active Transportation Device Usage (Frequency)		
Daily	20%	7%
Weekly	16%	20%
Monthly	11%	20%
Never/Not Sure/No Response	53%	53%
Overall Comfort on the Active Transportation Network		
Comfortable Anywhere	4%	4%
Comfortable in Lanes	15%	21%
Comfortable Behind Barriers	55%	57%
Uncomfortable/Unable to Use	26%	18%

Resident Preference Survey Outputs/ Key Metrics	People with Disabilities	People without
Participation in Encouragement Events: Percent of people that...		
Have participated in Bike to Work Day	18%	14%
Have attended a Sunday Streets event in San Francisco	39%	36%
Have walked, biked, or rolled on one of San Francisco's designated Slow Streets	49%	52%
Safety and Affordability: Percent of people that...		
Have had a bike or scooter (or part thereof) stolen in San Francisco	43%	25%
Are aware of safe places in San Francisco where they can park a bike, scooter, or other active transportation device.	33%	43%
Believe that owning or renting a bike, scooter, or other active transportation device in San Francisco is affordable	44%	48%
Believe that people using active mobility devices such as bikes and scooters usually follow traffic laws	28%	32%

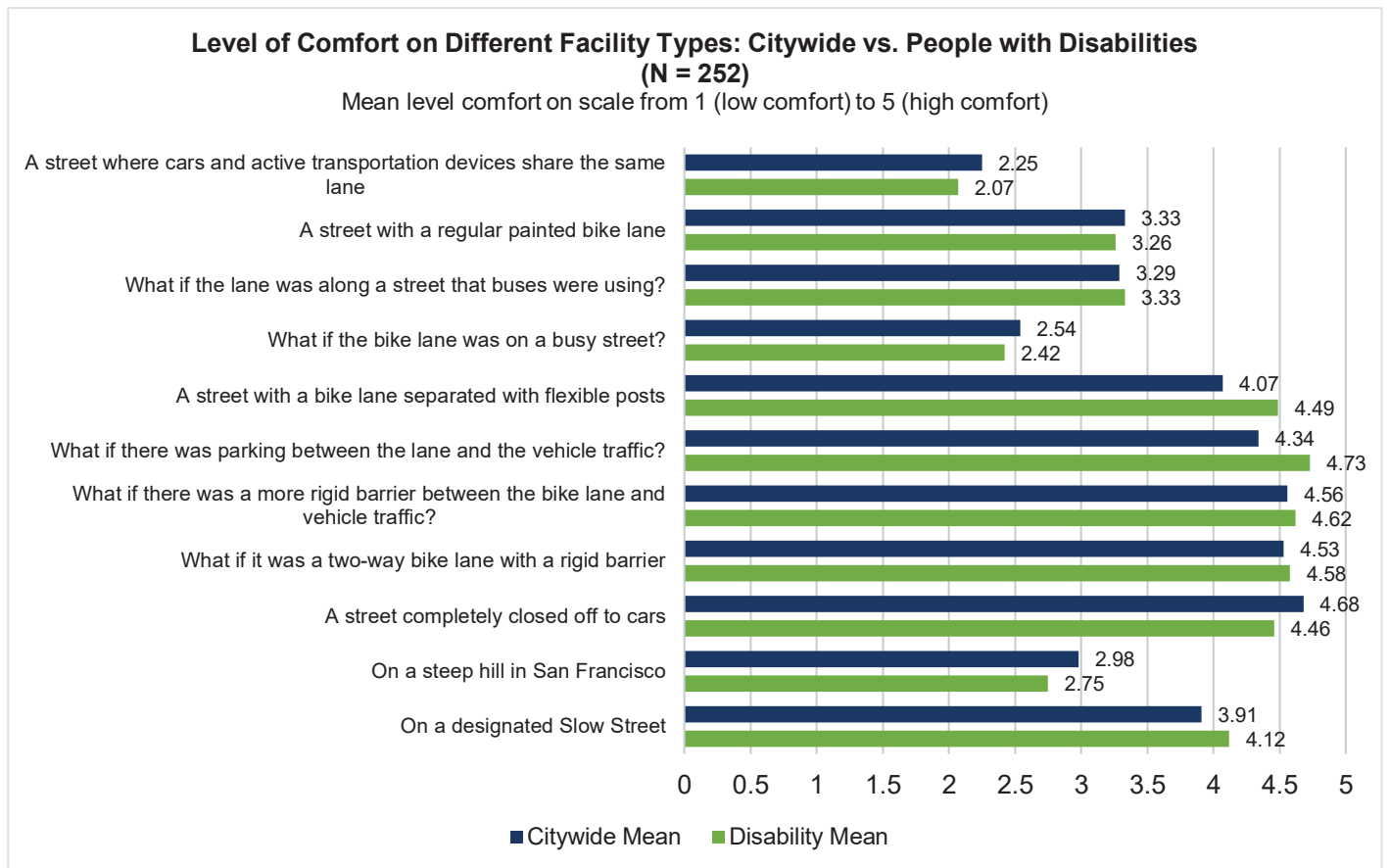
How do people with disabilities experience the active transportation network?

According to resident preference survey results, people with disabilities report higher rates of theft of their active transportation devices than people without disabilities (43% compared to just 25%). Moreover, people with disabilities are less likely to be aware of safe places in San Francisco to park a bike, scooter, or other mobility device (just 33% report knowing of safe parking spaces, compared to 43% of people without disabilities). People with disabilities are also less likely to agree that owning or renting a bike, scooter, or other active transportation device is affordable in San Francisco (44% agree, compared to 48%). Note that these statistics may have a high margin of error, given the small sample size.

Overall, people with disabilities are less comfortable on the active transportation network than San Franciscans without disabilities. Twenty-six percent of people with disabilities report being uncomfortable on or unable to use the network, compared to just 18% of people without a disability (see Figure 8). In general, people with disabilities prefer to use facilities that provide some protection from cars – this is consistent with citywide preferences.

Figure 12 shows that, compared to citywide results, people with disabilities report lower levels of comfort on streets with sharrows or painted bike lanes, as well as on busy commercial streets, steep slopes, and on bike paths or car-free streets. People with disabilities report higher levels of comfort on bike lanes with some kind of barrier, and on Slow Streets.

Figure 12: Citywide Comfort vs. Disability Comfort



What interventions do people with disabilities want to see?

Questions in the Phase 2 Public Survey asked San Franciscans what they need in order to bike, scoot, or roll more. People with disabilities indicated that the most important intervention is “more comfortable and welcoming lanes and facilities” (38% of respondents), followed by “better behavior and safety habits” (35%).

Table 4: Public Survey Results - Policy and Program Preferences of People with Disabilities

<i>What’s most important to get you to bike, scoot, and roll more in San Francisco?</i>	<i>Percent of Respondents</i>
More comfortable and welcoming lanes and facilities	38%
Better behavior and safety habits by road users	35%
More options for owning and renting bikes or scooters	17%
Information on how to bike, scoot, and roll	10%
Supporting facilities like device parking or charging for e-devices	0%
Events that get people together to ride safely	0%

Within each category, the project team asked respondents to indicate “low”, “medium”, and “high” priority for specific interventions. The interventions that were most often ranked as “high” priority by people with disabilities were:

- Traffic Enforcement* (80% of respondents who selected “better behavior and safety habits by road users” indicated that this is a “high” priority)

- More pavement maintenance, replacement of broken flex posts, and street sweeping to clear debris or broken glass (77%)
- More signage and wayfinding to navigate the city and find destinations (73%)
- Better connections between bike facilities (71%)
- Driver education on safe behaviors and how to share the road (70%)

***Disclaimer:** Because of the deep, complex history of policing and enforcement in BIPOC communities, it is important to consider this input with a critical lens. As part of the next round of community workshops, the project team will work with CBO partners to ensure residents have the space to express their needs, concerns, or priorities related to enforcement and policing in their neighborhoods. Note that RPS data shows lower levels of priority for enforcement among respondents of color.

Equity Priority Community Neighborhood Profiles

The following section provides an overview of each EPC neighborhood and highlights key findings from the Resident Preference Survey, Network and County Analysis, and Collision Analyses. EPC findings are compared to citywide findings to understand differences between each EPC and the city at large.

SoMa

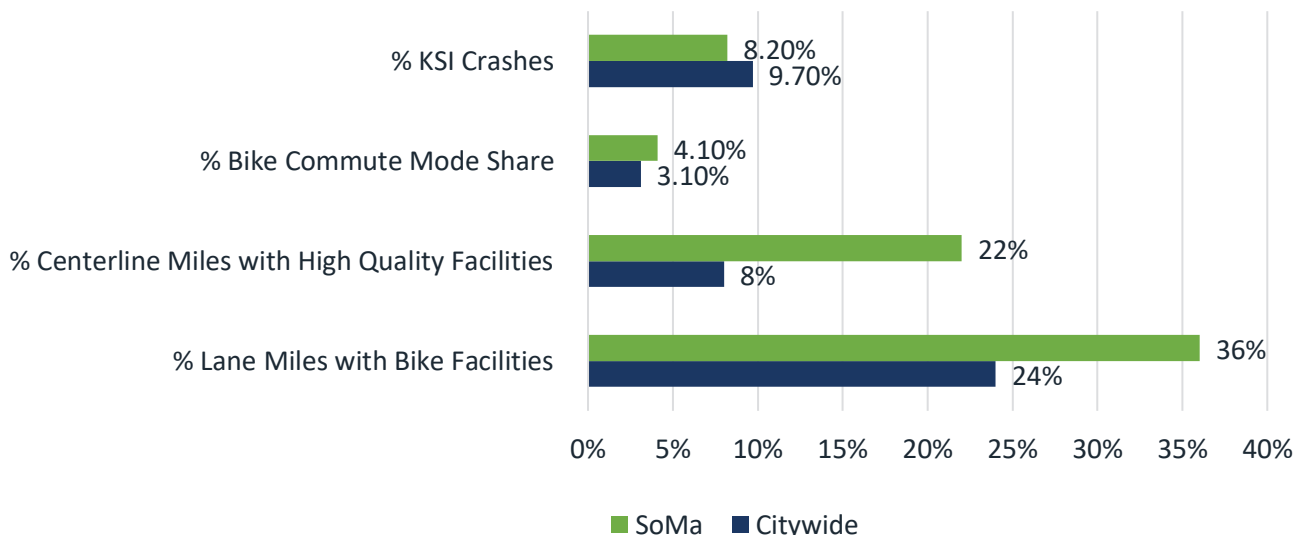
SoMa is located in the northeastern quadrant of the city, in the dense urban center, and is bordered by the Tenderloin EPC in the north and the Mission District EPC in the south. SoMa residents are more likely to be rent burdened, have limited English proficiency, be people of color, low income, disabled, and are older than 75 years old. The share of residents that are in single-parent family households and that are younger than 18 years old is greater than citywide.



Likely as a result of being located in the city’s dense urban center, SoMa has some of the best network coverage in the city; 36% of lane miles have bike facilities and 22% of lane miles with bike facilities are high-quality. Class IV bike facilities in SoMa also have some of the highest volumes in the city, likely due to the density of land uses, people, housing, jobs, and destinations. The project team also found that when using the Active Transportation Network, SoMa residents tend to use the network in a more utilitarian manner (commuting to work, school, or running errands), than citywide residents (who use the network more for social events and exercise). This may be related to the fact that SoMa residents are much less likely to own cars (34% compared to 79%), and therefore use the network in place of car trips. Additionally, SoMa bikeshare and scootershare trips are more than double the average daily rate citywide.

In terms of safety, more than 10% of bike and scooter crashes citywide occurred in SoMa. Of these, 89% of the all crashes, and 100% of KSI crashes occurred along the HIN. KSI crashes occurred in SoMa at a slightly lower rate than citywide KSI crashes, at 8.2% and 9.7%, respectively. While almost half of all crashes (and over half of all KSI crashes) occurred on, or along, streets with four vehicle lanes, and 89% of all crashes occurred along streets with 25 mph speed limits, the most common crash type in SoMa involved both the driver and bicyclist proceeding straight.

SoMa Active Transportation Key Characteristics



The Mission District

The Mission is located in the north-central area of the city, just south of the city's dense urban center, and is bordered by the SoMa and Tenderloin EPCs to the north and the Bernal Heights neighborhood to the south. Mission District residents are more likely to have limited English proficiency, be people of color, be low income, and have disabilities than all San Francisco residents.

Although the Mission has some of the highest network coverage in the city (30% of lane miles have bike facilities compared to 24% citywide), only 8% of lane miles with bike facilities are high-quality. In terms of network coverage and volumes, the Mission seems to be over-performing, indicating high-volumes relative to network coverage. The project team also found that when using the Active Transportation Network, Mission residents tend to use the network in a more utilitarian manner (commuting to work, school, or running errands), than citywide residents (who use the network more for exercise). This may be related to the fact that in the Mission, the project team found that there is some association between households that do not own cars and those who commute to work by bike, likely due to the proximity between housing and jobs. Both the bike commute mode share and the percent of households that do not own cars in the Mission are more than double that of citywide residents (7.9% of Mission residents commute by bike compared to only 3.1% of citywide residents, and 48% of Mission residents do not own cars compared to only 21% of citywide residents). Additionally, results from the Resident Preference Survey indicate that a larger share of Mission residents, compared to citywide residents, use the Active Transportation Network, and that estimated bike and micromobility volumes in the Mission are about twice as high as the citywide average.

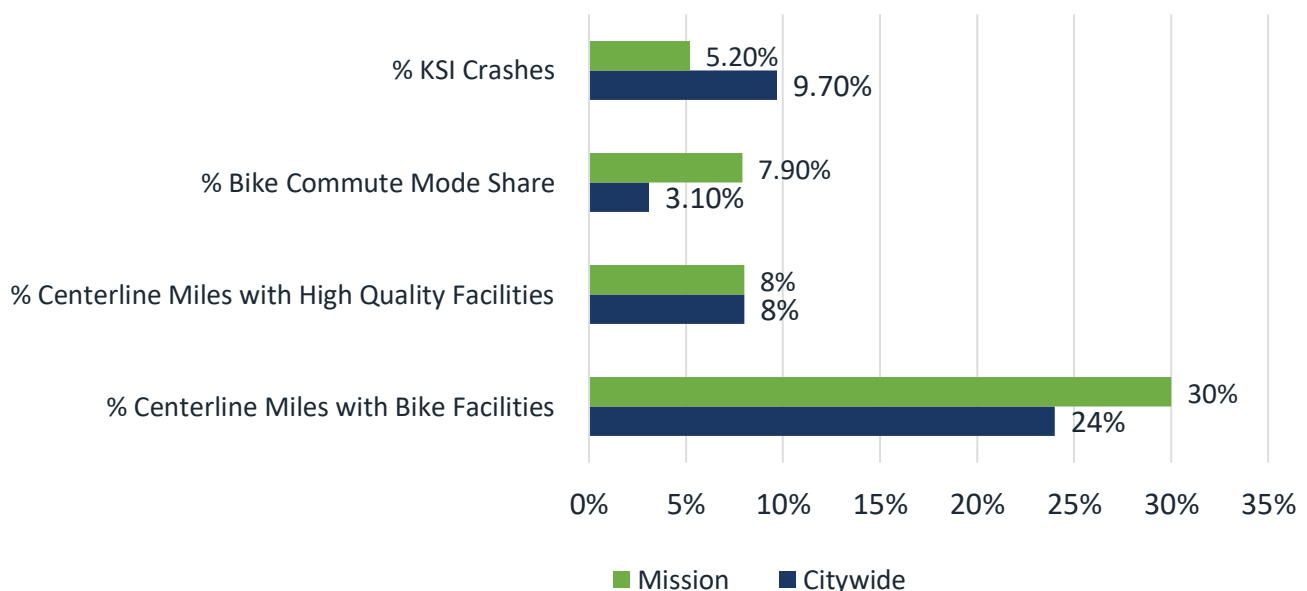


Facility Type

- CLASS I Path
- CLASS IV Protected Lanes
- Other Facilities
- Slow Street

Of the 232 crashes that occurred in the Mission District, 86% of the total crashes, and 83% of KSI crashes occurred along the HIN. KSI crashes in the Mission District occurred at a lower rate than citywide KSI crashes, at 5.2% and 9.7% respectively. While almost half of all crashes (and over half of all KSI crashes) occurred on, or along, streets with four vehicle lanes, and 100% of all crashes occurred along streets with 25 mph speed limits, the most common crash type in the Mission involved perpendicular crashes with both the bicyclist and driver proceeding straight.

Mission Active Transportation Key Characteristics



Bayview-Hunters Point

Bayview-Hunters Point is located in the southeast corner of the city and is bordered by the Potrero Hill neighborhood to the north, and Portola and Visitacion Valley neighborhoods to the west. Bayview-Hunters Point demographic characteristics show that residents are more likely than residents citywide to be single-parent households, have limited English proficiency, be people of color, be low income, have disabilities, and be younger than 18 years old. There is lower share of residents that are rent-burdened and that are seniors (older than 75 years old).

The project team found that while although Bayview-Hunters Point has a similar percentage of lane miles that have bike facilities compared to the city as a whole, only 5% of those lane miles are high-quality (lower than the citywide average of 8%). Compared to citywide rates, bikeshare, micromobility, and bike commuting in rates Bayview-Hunters Point are all lower than citywide rates, and while although Class IV separated bikeways in Bayview-Hunters Point have concrete barriers separating riders from vehicular traffic, the project team found low network volume here (volumes on Class II and III facilities were also found to be relatively low). These findings are likely due to the surrounding land use (low density), long distances from destinations, and below average network quality. This may also be why the percentage of households who own cars is similar to the citywide rate (77% in Bayview-Hunters Point and 79% citywide) and may be linked to the relatively low Active Transportation Network usage of this EPC).

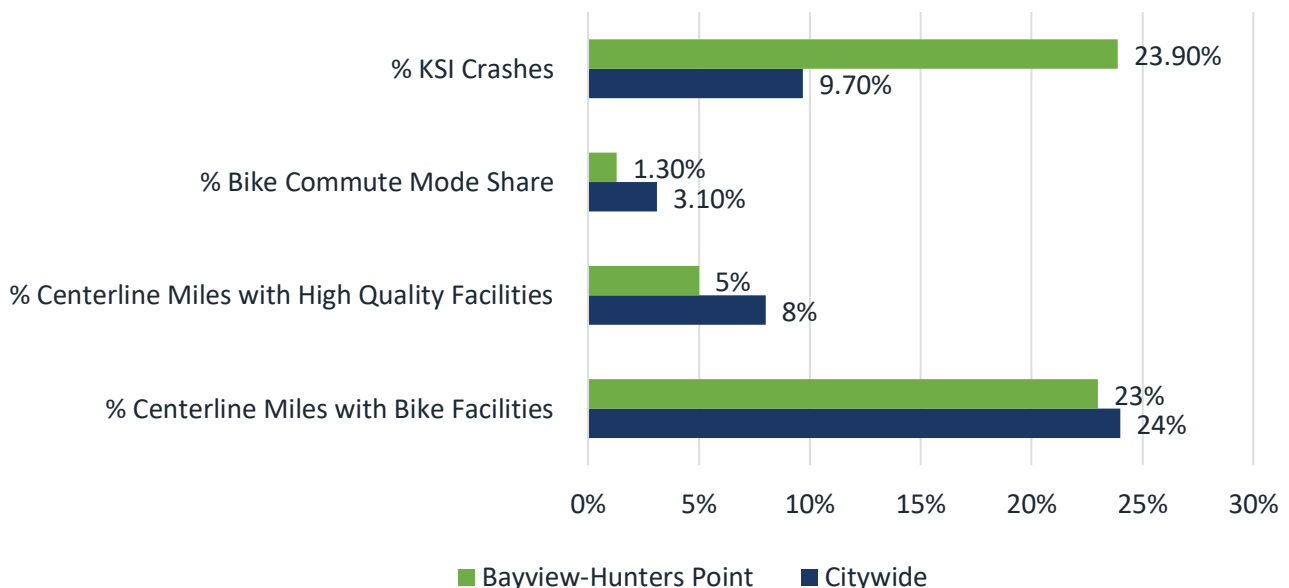
In terms of safety, the project team found that crashes are more severe in Bayview-Hunters Point than citywide. While the total number of crashes is relatively low compared to other EPCs, with only 46 total crashes, 24% were KSI crashes compared to only 9.7% citywide. While almost half of all crashes and KSI crashes occurred on, or along, streets with four vehicle lanes, and 72% of KSI crashes occurred along streets with 30 mph speed limits, the most common crash type in the Bayview-Hunters Point involved crashes with both the bicyclist and driver proceeding straight.



Facility Type

- CLASS I Path
- CLASS IV Protected Lanes
- Other Facilities
- Slow Street

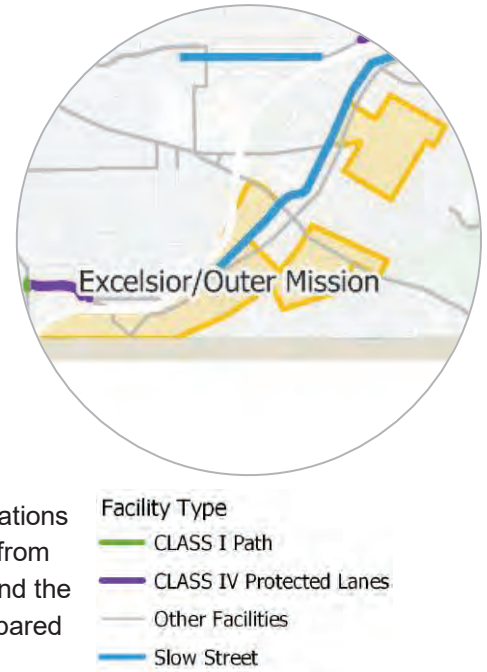
Bayview-Hunters Point Active Transportation Key Characteristics



Outer Mission/ Excelsior

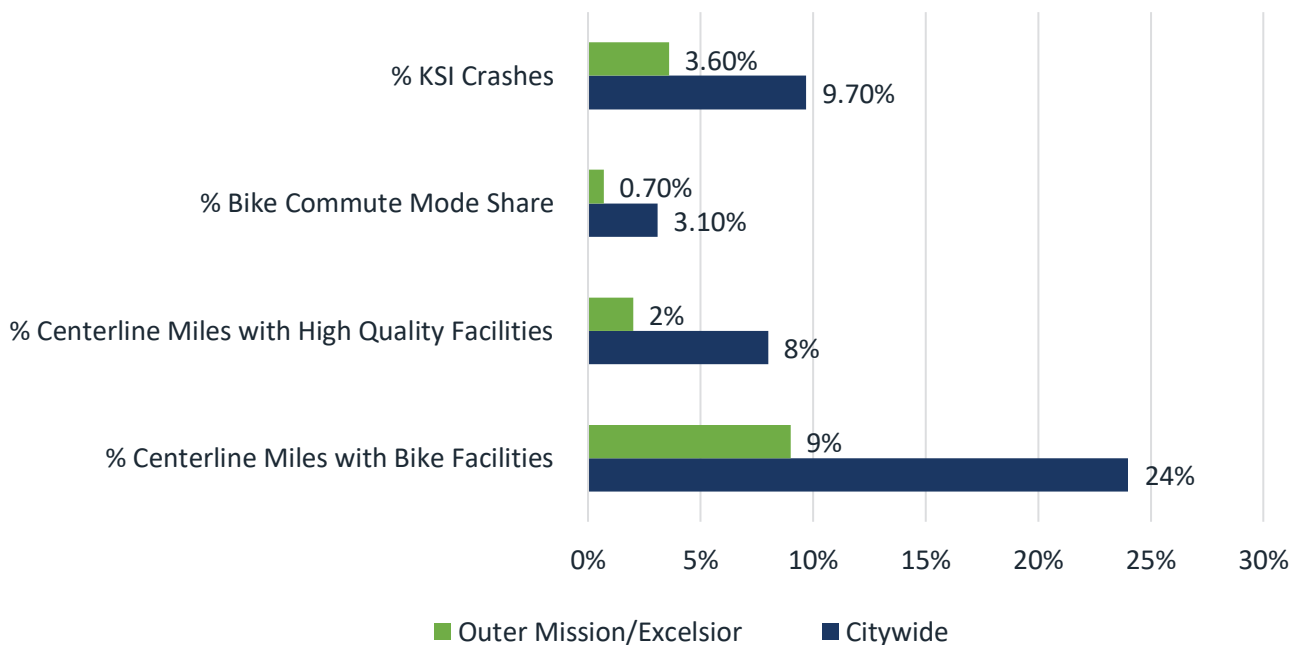
The Outer Mission/Excelsior is located in the southcentral area of the city, west of Bayview-Hunters Point and east of Lake Merced. Residents of the Outer Mission/Excelsior are more likely than San Franciscans overall to have limited English proficiency, be people of color, be low income, and be younger than 18 years old.

The Outer Mission/Excelsior has both low network coverage, and less high-quality network coverage compared to the citywide network. Relatedly, bike commuting is also low in the EPC, and can likely be attributed to lower density land use patterns and people living too far from their jobs to make bike commuting an attractive option. In terms of network performance, the Outer Mission/Excelsior is underperforming, meaning that volumes are low relative to network coverage, which may be due to factors like land use (long distances between key destinations), connectivity (poor connections to destinations outside of the neighborhood), and network quality (such as lack of protection from cars). Low volumes may also simply be the result of low population density, and the fact that only 11% of Outer Mission/Excelsior residents do not own cars (compared to 21% citywide).



In terms of safety, the Outer Mission/Excelsior had the fewest number of crashes than any other EPC, with 28 total crashes resulting in only one KSI crash. The low number of crashes could be a result of the relatively low Active Transportation Network use in this EPC. While almost half of all crashes and KSI crashes occurred on, or along, streets with four vehicle lanes, the most common crash type in the Outer Mission/Excelsior involved crashes with both the bicyclist and driver proceeding straight.

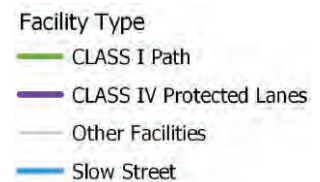
Outer Mission/Excelsior Active Transportation Key Characteristics



Western Addition/ Fillmore

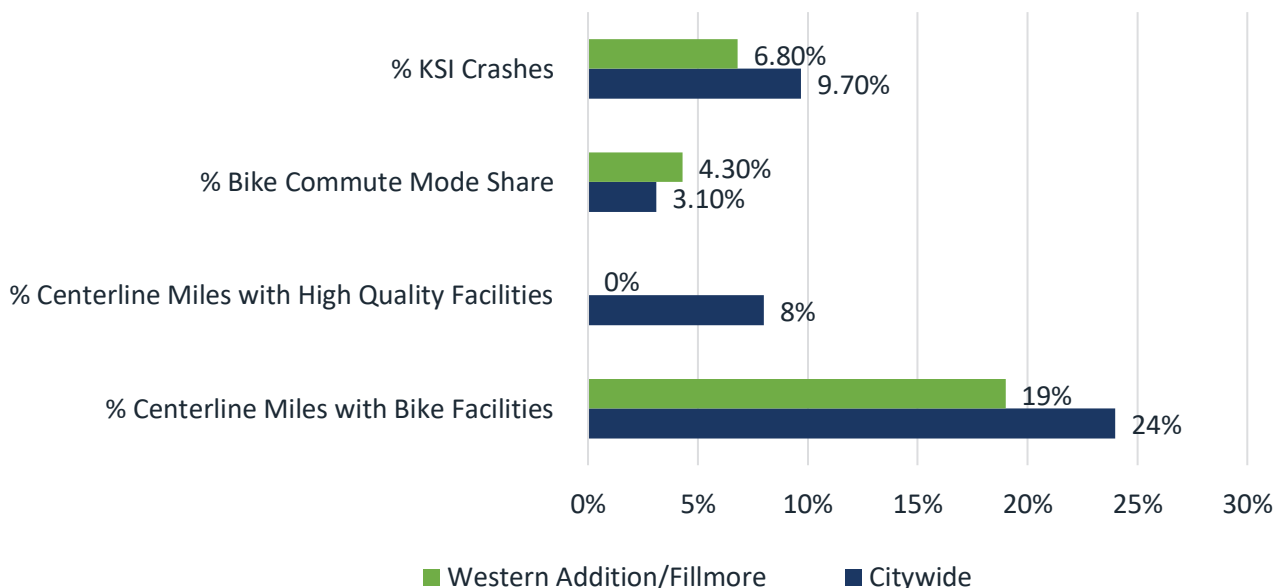
The Western Addition/Fillmore EPC is located in the northeastern quadrant of the city, directly west of the Tenderloin EPC. The Western Addition/Fillmore’s residents are more likely than San Franciscans overall to have limited English proficiency, be people of color, be low income, be disabled, and be younger than 18 years or older than 75 years old.

Despite being adjacent to the city’s dense urban center, and to EPCs with higher than-average network coverage, the Western Addition/Fillmore EPC has lower-than-average network coverage (19% compared to 24% citywide), and has no high-quality facilities (indicating an absence of protected bike lanes, off-street paths, Slow Streets, and car-free streets within EPC boundaries). Although the EPC has low network coverage, the project team found that certain streets in the EPC see a high volume of off-network use, which may indicate that current infrastructure is working in the area. Additionally, Western Addition/Fillmore residents commute to work by bike at a higher rate than citywide residents and may be using off-network routes to get to their destinations. Bikeshare and scootershare trips in this EPC are also higher than the average daily citywide rate. When using the Active Transportation Network, Western Addition/Fillmore residents use the network in a more utilitarian manner (commuting to work, school, or running errands), than citywide residents (who use the network more for exercise). This may be related to the fact that Western Addition/Fillmore residents are twice as likely to not own cars as citywide residents (47% compared to 21%), and therefore use the network in place of car trips.



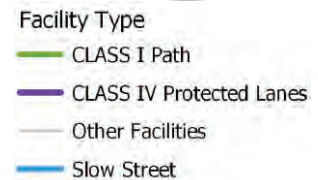
In terms of safety, 117 crashes occurred in the Western Addition/Fillmore, with 6.8% of total crashes resulting in KSI crashes (less than the citywide rate of 9.7% KSI crashes). While almost half of all crashes occurred at, or along, streets with two or more vehicle lanes, half of all KSI crashes occurred at, or along, streets with five or more vehicle lanes. and KSI crashes occurred on, or along, streets with four vehicle lanes, the most common crash type in the Western Addition/Fillmore involved crashes with both the bicyclist and driver traveling in the same direction. Posted speed limits also impact crashes, with 73% of all crashes occurring along streets with a posted speed limit of 25 mph, and half of all KSI crashes occurring along streets with a posted speed limit of 35 mph.

Western Addition/Fillmore Active Transportation Key Characteristics



Tenderloin

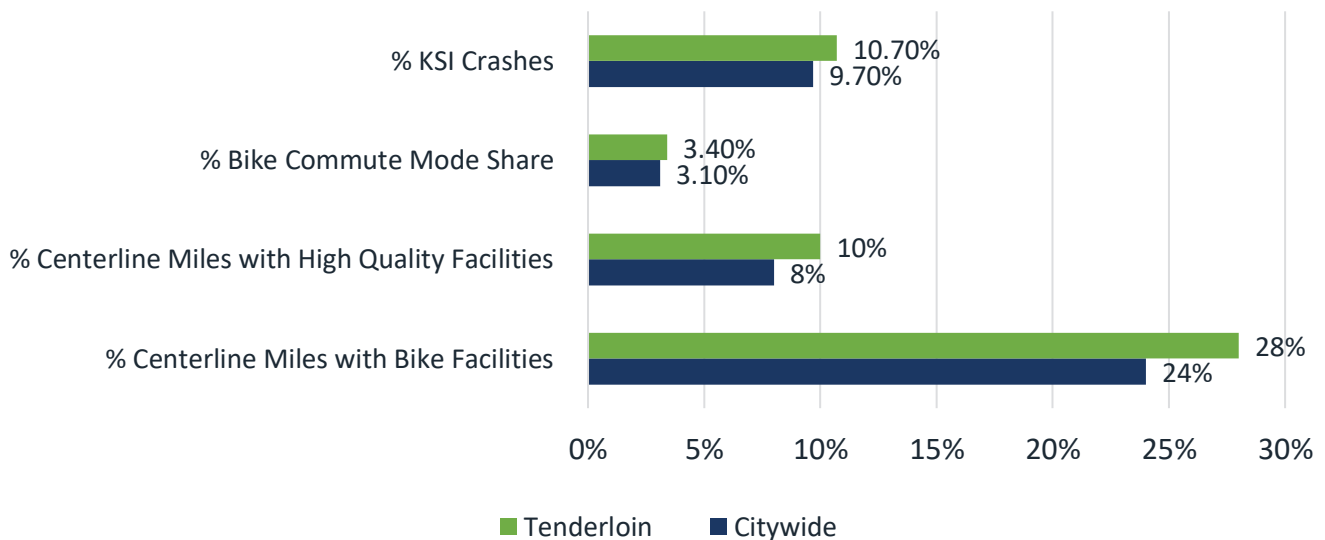
The Tenderloin is located in the northeastern quadrant of the city, in the dense urban center, and is bordered by the Western Addition/Fillmore EPC in the west, and the Mission and SoMa EPCs in the south. The Tenderloin's residents are more likely to be rent burdened, have limited English proficiency, be people of color, ve low income, and have disabilities). The Tenderloin EPC has higher-than-citywide percent of residents that are single family households, are youth (younger than 18 years old), and that are seniors (older than 75 years old).



The Tenderloin has some of the highest network coverage in the city, with 28% of lane miles having bike facilities, compared to only 24% citywide . The Tenderloin also has a higher percentage of high-quality facilities, with 10% of lane miles being high-quality. High network coverage in the Tenderloin can be explained by its dense, urban, and central location. While network coverage in the EPC is high, there are some streets that are under-performing in terms of volume, and may be linked to barrier types not being appropriate for surrounding activity, frequency of vehicles parked in bicycle facilities, high curbside turnover, and reports of frequent debris in bicycle facilities. The project team also found that despite low car ownership in the Tenderloin (81% of households do not own cars compared to only 21% citywide), of those surveyed, less than half of respondents use the Active Transportation Network at all, and less than 20% use it daily. The project team also found that when using the Active Transportation Network, Tenderloin residents use the network in a more utilitarian manner (commuting to work, school, running errands, or going to social activities), than residents citywide (who use the network more for exercise).

Every street in the Tenderloin is on the HIN (meaning that all crashes occurred on the HIN), and that most streets in the Tenderloin have Muni bus routes, which can compromise bicycle facility safety. Crashes in the Tenderloin account for more than 10% of bike or scooter crashes citywide. Of the 243 total crashes that occurred in the EPC, 10.7% resulted in KSI crashes (higher than the citywide average of 9.7%).. While almost half of all crashes and KSI crashes occurred on, or along, streets with three vehicle lanes, and over 90% of both total and KSI crashes occurred along streets with 25 mph speed limits, the most common crash type in the Tenderloin involved perpendicular crashes with both the bicyclist and driver proceeding straight.

Tenderloin Active Transportation Key Characteristics



Next Steps

This memorandum focuses on quantitative data, and next steps include integrating qualitative findings from public outreach, community workshops, and coordination with disability advocates. This next phase of work will provide a deeper understanding and analysis of Active Transportation Network issues and concerns amongst people with disability. The next phase will also include a connectivity/access analysis that will include findings from EPCs, specifically looking at which neighborhoods have access to key destinations (e.g., transit, parks, schools, jobs, hospitals) via comfortable and high-quality routes. The project team will also look to understand what barriers currently exist for people accessing the Active Transportation Network, and what may alleviate those barriers.

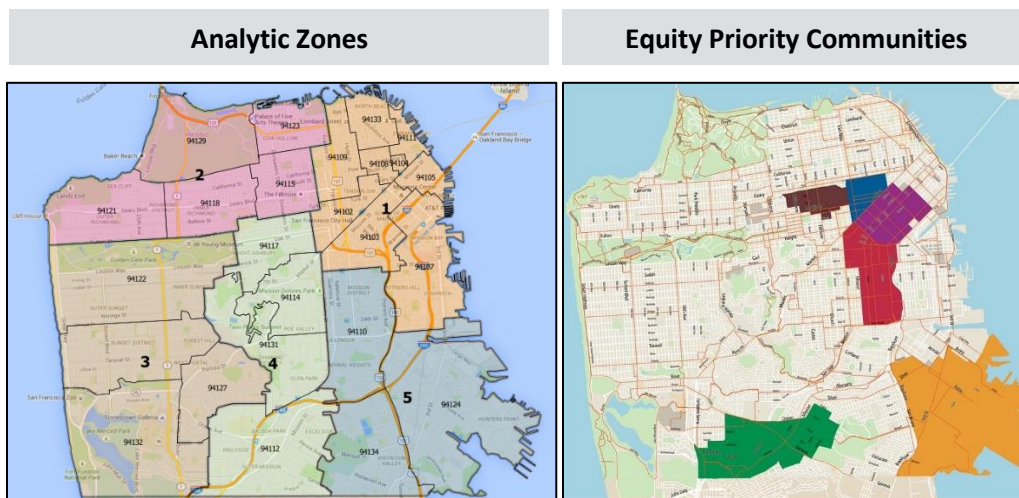
Appendix F



TO: San Francisco Municipal Transportation Agency & Toole Design Group
FROM: EMC Research, Inc.
RE: SFMTA Resident Preference Survey – Summary of Findings
DATE: July 21, 2023

This memo outlines key findings from a recent web panel and intercept survey conducted among San Francisco residents from March 28-May 1, 2023. Four hundred (400) interviews were conducted online with a representative sample of adult San Francisco residents across the City, and an additional 600 interviews were conducted in person across the identified Equity Priority Communities (EPCs), with 100 interviews conducted in each EPC. The survey was made available in English, Spanish, Chinese, and Tagalog. The final distribution of survey respondents was weighted to reflect the actual demographic and geographic distribution of the adult population of San Francisco, according to US Census data.

The following maps show the five broad San Francisco analytic zones used for some of the analysis in this memo, as well as the six EPCs where the additional intercept interviewing was conducted. The five analytic zones were created using zip codes and have been used in prior analysis of survey results for SFMTA, and were sized to allow us analyze regional data with a reasonable number of interviews in each zone.

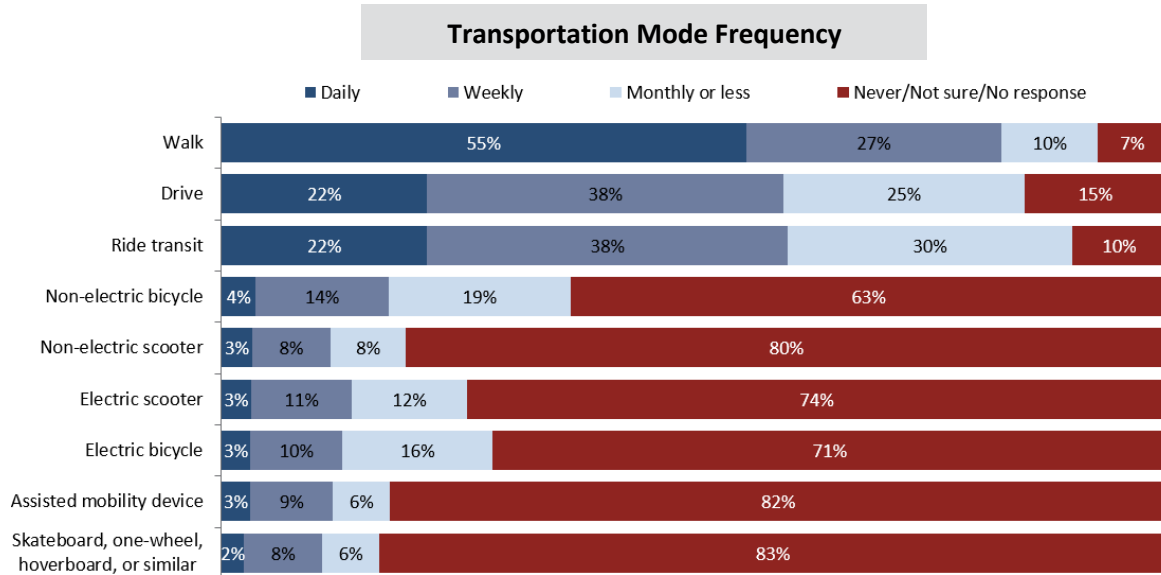


<u>Analytic Zone</u>	<u>Total interviews (including EPC intercepts)</u>	<u>Weighted interview distribution*</u>
Zone 1: Downtown/SOMA	321	27%
Zone 2: Marina/Richmond	108	17%
Zone 3: Sunset/Lake Merced	90	18%
Zone 4: Haight/Noe/Glen Park	163	22%
Zone 5: Mission/Visitacion Valley	318	16%

* Survey data weighted to reflect actual adult population distribution in San Francisco, according to U.S. Census estimates.

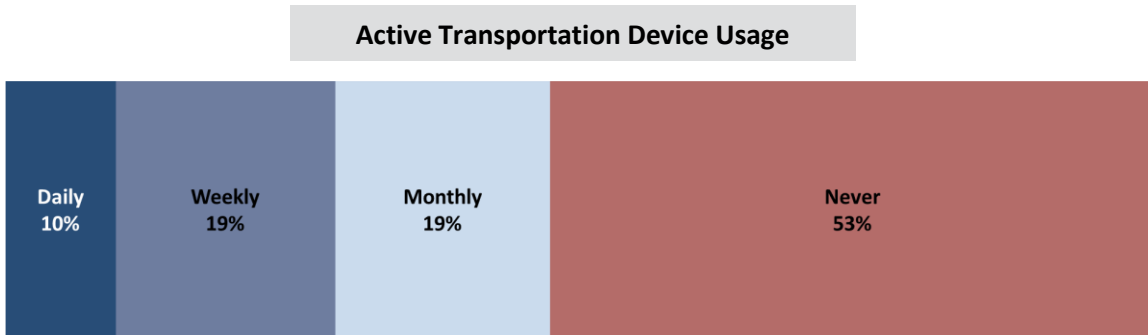
San Francisco residents primarily walk, drive and ride transit to get around.

Walking is by far the most commonly used mode of transportation for San Francisco residents. Driving and riding transit command roughly equal usage by City residents, with a little more than one-fifth reporting they drive or use transit daily. Non-electric bicycles are the most common active transportation mode, with almost two-in-five residents reporting some level of usage.

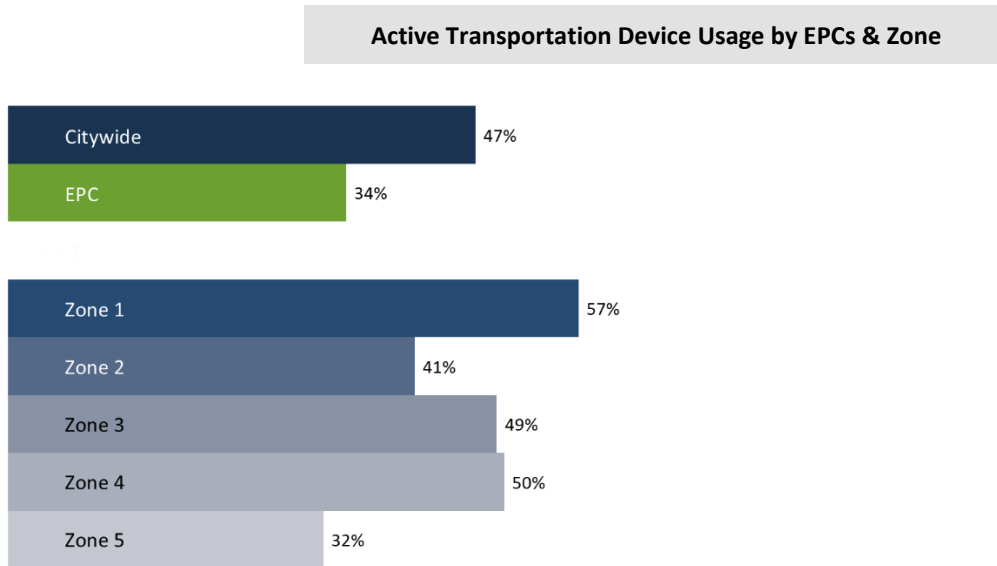


Just under half of San Francisco residents use active transportation devices on a regular basis.

One in ten San Francisco residents report using one or more active transportation devices daily, with nearly half using one or more monthly or more frequently.

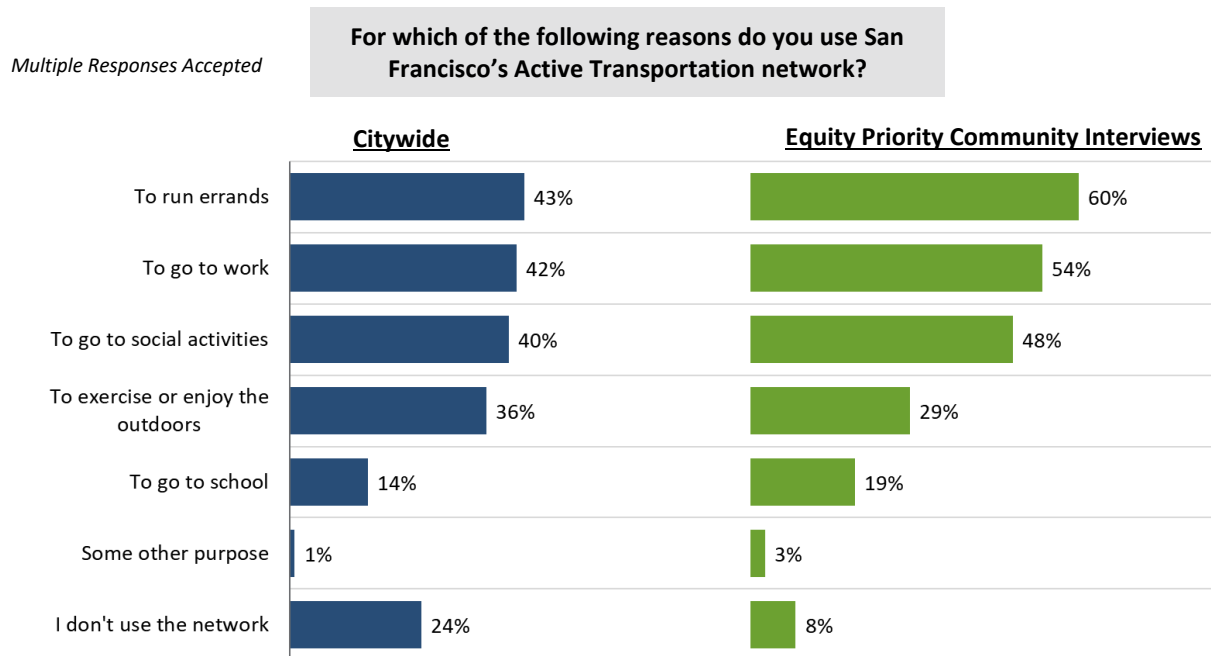


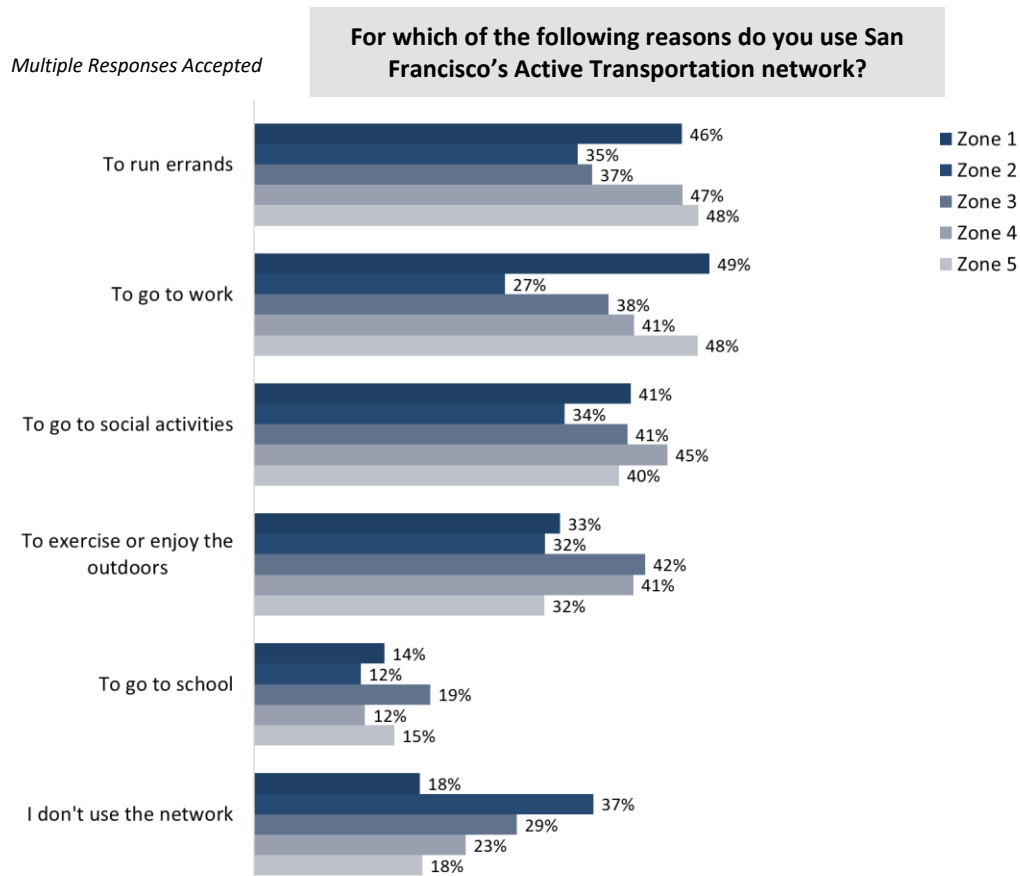
Those interviewed in the EPCs were less likely to report usage of active transportation devices than San Franciscans in general, while those in the downtown/SOMA area were most likely to report using active transportation devices on a regular basis.



Residents in different parts of San Francisco have different reasons they use the Active Transportation Network.

Those interviewed in the EPCs were more likely to say they use the Active Transportation Network for functional trips, like errands and commutes. Residents of the downtown/SOMA area are more likely to say they use the Network for running errands or commuting, while central or western area residents say they use it more for social and exercise purposes.





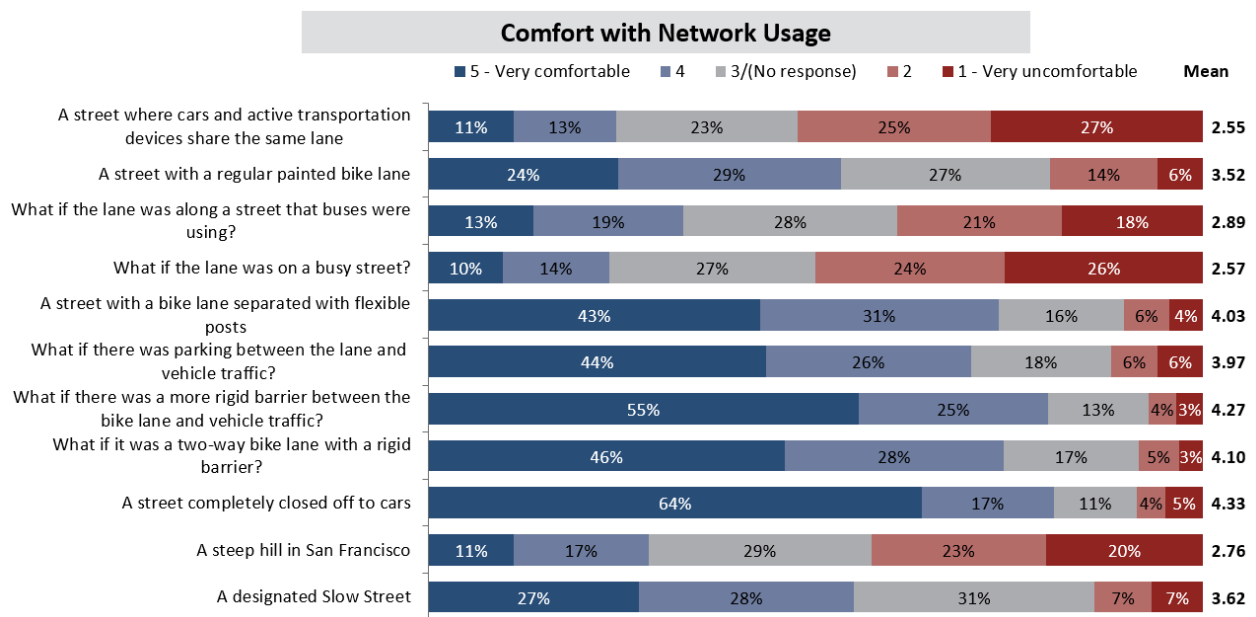
Equity Priority Community respondents also report using Slow Streets at a lower rate than city residents overall. Levels of participation in Sunday Streets and Bike to Work Day are more similar citywide and in the EPC interviews. Slow Streets are much more widely used in the central and western parts of the City than in other areas.

Which of the following have you done? (<i>multiple responses accepted</i>)	Citywide	EPC	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
Walked, biked, or rolled on one of San Francisco's designated Slow Streets	51%	32%	49%	52%	62%	61%	29%
Attended a Sunday Streets event in San Francisco	37%	34%	47%	32%	39%	30%	29%
Participated in Bike to Work Day	15%	10%	16%	11%	21%	29%	6%

Residents feel most comfortable using Active Transportation Network facilities that are physically separated from cars and other traffic.

Survey respondents were given an ordered set of questions with images that showed different environments they might encounter while using the Active Transportation Network and asked to rate their comfort in each. Photos were shown with some questions for clarity.

The chart below shows the results for that set of questions citywide; questions are shown in the order asked. A majority of residents express discomfort with the idea of using streets where cars and active transportation devices share the same lane. Comfort increases significantly for a painted bike lane environment, but concerns are higher when that lane is near buses or on a busy street. Facilities with physical protection from traffic are the most comfortable environments for a majority of users. As expected, a street completely closed off to cars is the most comfortable environment, with nearly two-thirds (64%) saying they are very comfortable in that environment.

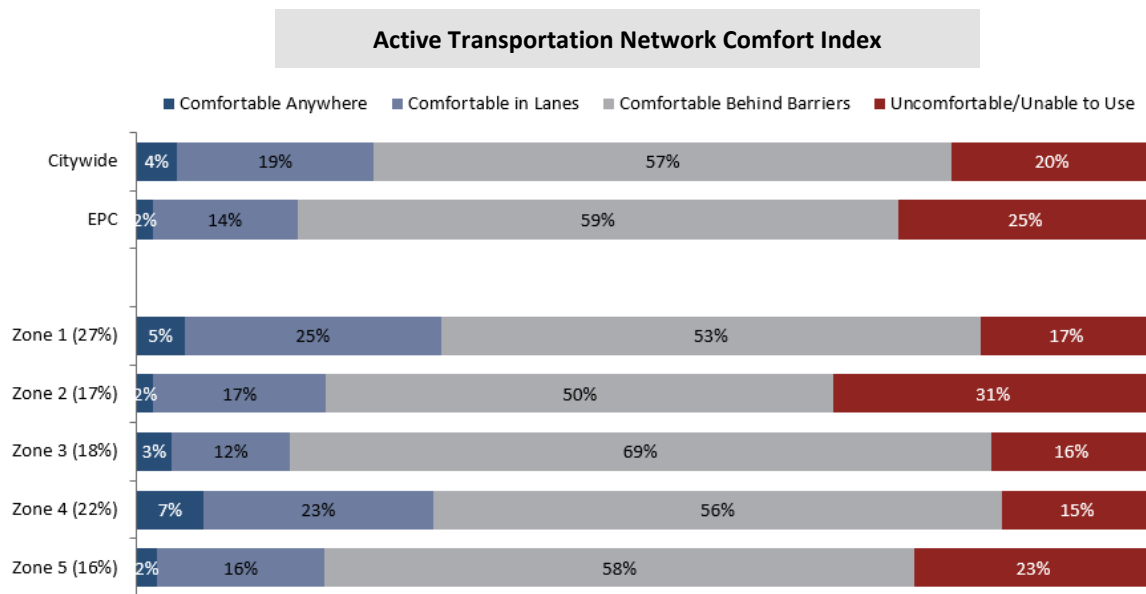


Analysis of comfort levels across a range of facility types in the City’s Active Transportation Network reveals that few residents are completely comfortable across all types of ATN facilities.

The questions from the section above were used to create an **Active Transportation Network Comfort Index**, to understand how residents feel across a range of ATN facility types. The general approach was developed referencing the work of Roger Geller and Jennifer Dill on comfort level in cycling facilities, but adapted for this analysis.

The chart below shows the results of this analysis:

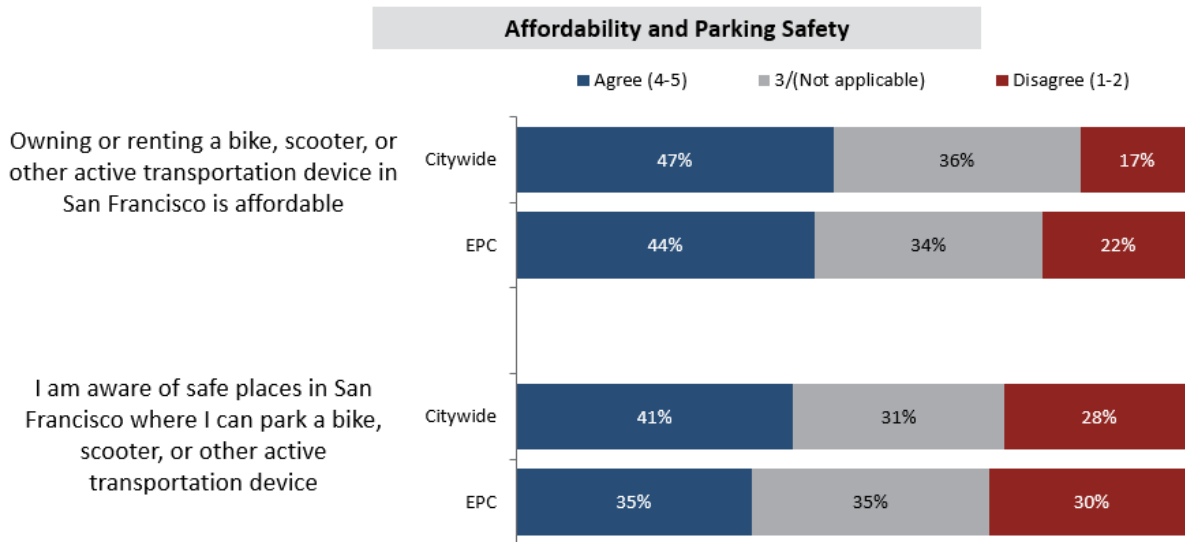
- Four percent (4%) of adult residents of San Francisco can be considered **“Comfortable Anywhere”** in their use of the ATN, meaning they feel very comfortable using all types of facilities shown in the survey.
- Another 19% are termed as **“Comfortable in Lanes,”** meaning they are not very comfortable with shared facilities, but feel very comfortable on facilities with separate lane designations but no physical barriers.
- The largest share (57%) can be described as **“Comfortable Behind Barriers”** – these are people who are comfortable only on facilities that are separated from vehicle traffic by a physical barrier, such as flex posts, parked cars, or a rigid barrier.
- The remaining 20% (**“Uncomfortable / Unable to Use”**) are either very uncomfortable with using any types of facilities, or are unable to use the network at all due to their own mobility capabilities.



Residents in the northwest and southeast parts of the City are more likely to be uncomfortable or unable to use the ATN, as were respondents in the EPC interviews. Those who live in downtown/SOMA and the central part of the City are comfortable in the most types of active transportation facilities.

Affordability and safe parking places are potential barriers to using the Active Transportation Network.

Nearly half of adult San Francisco residents agree that owning or renting an active transportation device in San Francisco is affordable, and two in five agree they know of safe places to park devices. However, we do see a sizable minority not in agreement with those statements – 17% disagree that owning or renting is affordable, and 28% disagree that they are aware of safe places to park. Patterns are similar in the EPCs on these questions.



Appendix G



Appendix E: Connectivity Analysis

SFMTA Active Communities Plan

Task 2D: Connectivity Analysis

Part 1: Existing Network Connectivity Analysis - Revised Results

February 13, 2024

This memo describes the revised results for Part 1 of the SFMTA ACP Connectivity Analysis which assesses connectivity to key destinations via high-quality facilities on the existing active transportation network. During Part 2 of the analysis, we will apply the same methodology to measure connectivity to key destinations via high-quality facilities on the proposed network. Toole Design will run Part 2 of the analysis once a proposed network is available.

Purpose

The purpose of this analysis is to:

- Show **which parts of the city** have convenient access to key destinations via high-quality facilities, and how this will be improved through the proposed network.
- Identify **what percent of the population** has convenient access to key destinations via high quality facilities, and how this will be improved through the proposed network.
- Identify **what percent of the population lives within a quarter mile of a high-quality facility**, and how this will be improved through the proposed network. This metric will be used to evaluate the SFMTA's progress towards their goal that all residents in San Francisco live within a quarter mile of a high-quality facility.

Definitions

Toole Design worked with SFMTA staff to determine the following definitions to inform the analysis:

- **High-Quality Facilities** include:
 - Class I Paths
 - Class IV Protected Lanes
 - Slow Streets
 - Class II Lanes and Class II Routes that score "high" on the Bicycle Comfort Index¹
- **Convenient Access** is defined as trip where a user can walk to a high-quality facility within 5 minutes and can then ride on a high-quality facility to their destination within 10 minutes. In other words, a convenient trip is no longer than 15 minutes door-to-door.

¹ The project team defined "high-quality" lanes and routes as those with a Bicycle Comfort Index (BCI) score above 80. BCI scores over 80 indicate that, based on quantitative data such as vehicular speeds, volumes, pavement quality, elevation, the facility is comfortable to ride for most users. For information about BCI inputs, scoring, and interpretation, see the Bicycle Comfort Index Methodology document on the [project website](#).

Destination Types

This analysis uses the three destination types, as shown in the table below. These are Commercial Districts, Major Transit Stops, and Community Resources. Based on literature review and best practice, the project team assumed that most riders tolerate rides up to 10 minutes to access commercial destinations for shopping, grocery stores, and recreation. We assumed that riders tolerate shorter ride times to transit, because these trips are assumed to be the first leg of a longer inter-modal trip. Trips to community resources like parks, schools, and libraries often involve families with children, and literature suggests that young children tolerate shorter bike trips (usually up to mile a or a 5-minute ride).

Destination Type	Data Includes	Travel Shed Distance	Bike Time Equivalent
Commercial Districts	Neighborhood Commercial Districts; grocery stores; location of parking meters	2 Miles	10 minutes
Major Transit Stops	BART stations, MUNI frequent routes, rapid routes, and rail lines	1 Mile	5 minutes
Community Resources	K-12 Schools, Libraries, Parks, and Community/ Rec Centers	1 Mile	5 minutes

Key Findings

- Most San Franciscans (80%) live within a quarter mile of a high-quality facility. Proximity to high-quality facilities is lower in Equity Priority Communities (EPCs) at just 71%.
- Using high-quality facilities, 43% of San Francisco's population live within a 10-minute bike ride of a commercial district or grocery store. People living in Equity Priority Communities (EPCs) have very slightly lower access to commercial destinations (42%).
- Using high-quality facilities, 37% of San Francisco's population live within a 5-minute bike ride of a major transit stop. People living in EPCs have very slightly *higher* access to commercial destinations (38%).
- Using high-quality facilities, 29% of San Francisco's population live within a 5-minute bike ride of a community destination like a park or school. People living in EPCs lower access to community destinations (26%).

Figure 1: People living in Equity Priority Communities have less access to high-quality bike facilities

Access to key destination types and to high-quality bike facilities: general population compared to Equity Priority Communities

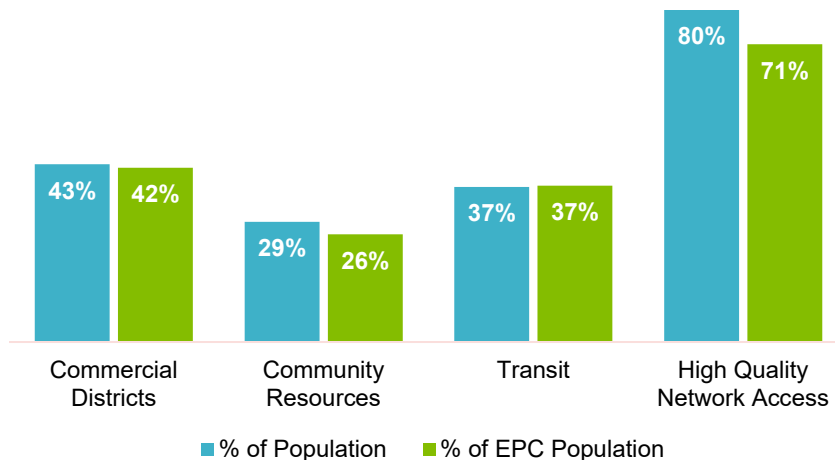
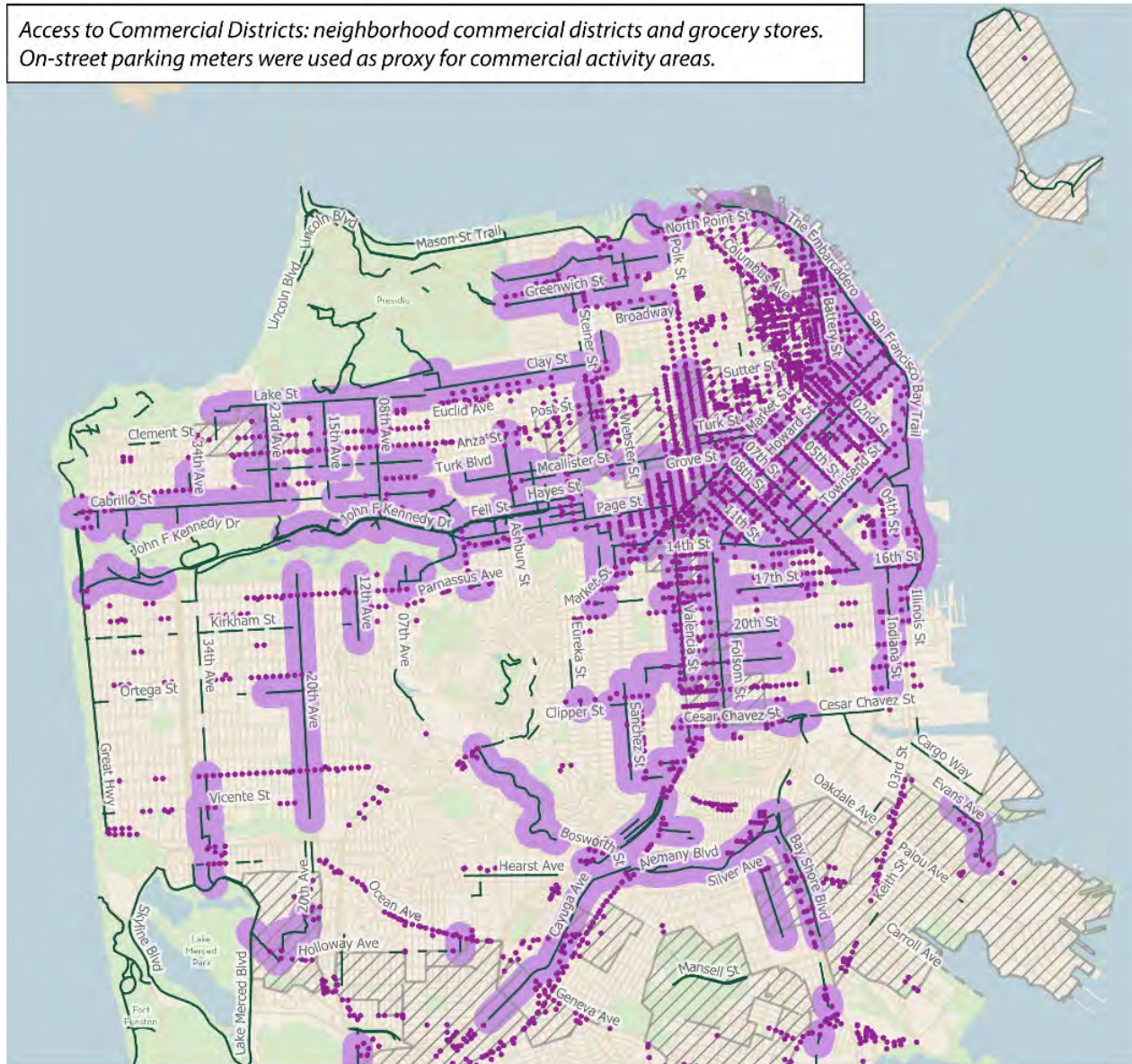


Figure 2

Access to Commercial Districts: neighborhood commercial districts and grocery stores. On-street parking meters were used as proxy for commercial activity areas.



San Francisco Active Communities Plan
Draft Connectivity Analysis
February 2024

- 10-minute Bike Travel Shed
- Existing High Quality Network * (2023)
- Equity Priority Communities
- Commercial Districts

* High quality network includes:

- Paths
- Protected lanes
- Slow Streets
- High Comfort Routes and Lanes, as defined by the 2023 Bicycle Comfort Index

Using the existing high quality network, 43% of the San Francisco population can access commercial districts within a 10-minute bike ride. 42% of populations in Equity Priority Communities can access commercial districts via high quality network facilities within the same amount of time.



0 0.75 1.5 mi

Figure 3

Access to Community Resources: Schools, Parks, Rec Centers, and Libraries via high quality network facilities



San Francisco Active Communities Plan
 Draft Connectivity Analysis
 February 2024

- 5-minute Bike Travel Shed
- Existing High Quality Network * (2023)
- Equity Priority Communities
- Community Resources

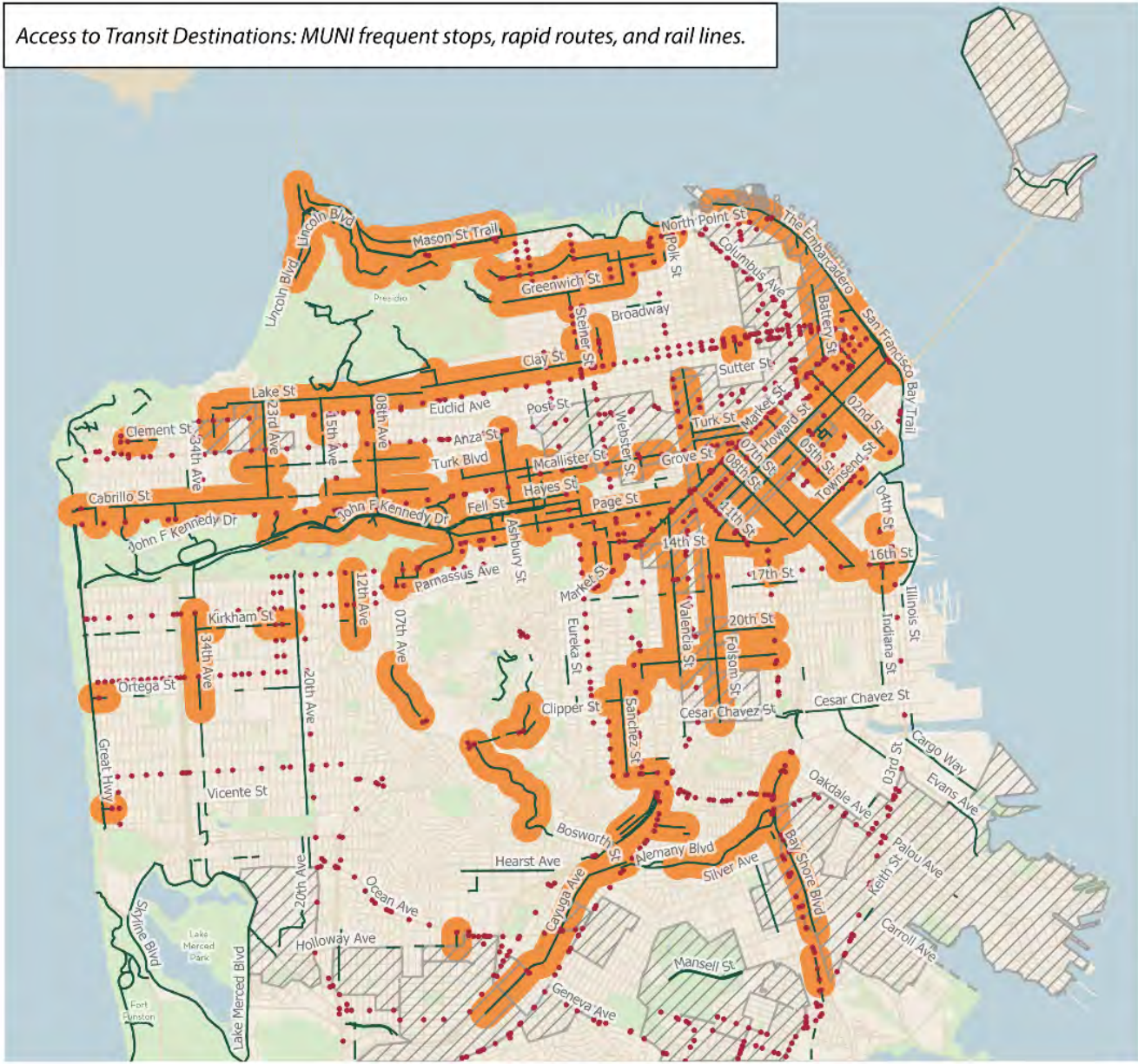
* High quality network includes:
 - Paths
 - Protected lanes
 - Slow Streets
 - High Comfort Routes and Lanes, as defined by the 2023 Bicycle Comfort Index

Using the existing high quality network, 29% of the San Francisco population can access community resources within a 5-minute bike ride. 26% of populations in Equity Priority Communities have access to community resources via high quality network facilities within the same amount of time.



Figure 4

Access to Transit Destinations: MUNI frequent stops, rapid routes, and rail lines.



San Francisco Active Communities Plan
Draft Connectivity Analysis
February 2024

- 5-minute Bike Travel Shed
 - Existing High Quality Network * (2023)
 - Equity Priority Communities
 - Transit
- * High quality network includes:
- Paths
 - Protected lanes
 - Slow Streets
 - High Comfort Routes and Lanes, as defined by the 2023 Bicycle Comfort Index

Using the existing high quality network, 37% of the San Francisco population can access transit destinations within a 5-minute bike ride. 38% of populations in Equity Priority Communities have access to transit destinations via high quality network facilities within the same amount of time.

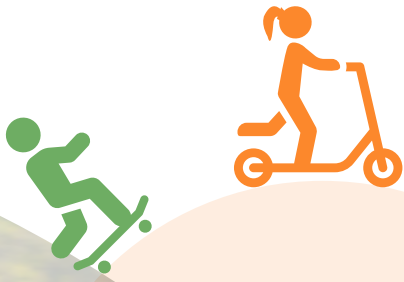


Table 1: Access to destination types via high-quality routes.

Destination Type	Metric	Existing Network	Proposed Network*
Neighborhood Commercial District	% of population within 2 miles	43%	
	% of EPC population within 2 miles	42%	
Transit	% of population within 1 mile	37%	
	% of EPC population within 1 mile	38%	
Community Resources	% of population within 1 mile	29%	
	% of EPC population within 1 mile	26%	
High Quality Network Access	% of population within ¼ mile of a high-quality facility	80%	
	% of EPC population within ¼ mile of a high-quality facility	71%	

**To be completed during Part 2 of the analysis*

Appendix H



MEMO



SAFE STREETS
Research + Consulting

TO: Christopher Kidd
FROM: Brian Almdale, MUPP and Rebecca Sanders, PhD RSP_{2B}
DATE: 03-10-2023
RE: Final Draft Crash Analysis – Step I
PROJECT: SFMTA Bike Plan

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Introduction

This memo summarizes the methodology and key findings for the first of two crash analyses being conducted as part of the San Francisco Active Communities Plan. The two primary questions these analyses aim to answer include:

- **Step I Analysis:** Who, where, when, and why of crashes involving bicyclists and other human-scale wheeled road users?
- **Step II Analysis:** What are the modifiable risk factors associated with (fatal and severe) bicyclist crashes?

The purpose of this Step I analysis will help us understand and communicate the who, where, when, and why of crashes involving bicyclists and other human-scale wheeled road users. The initial findings from this analysis will be shared with the public during Community Engagement Phase 2. The San Francisco Municipal Transportation Agency (SFMTA) staff will review the draft findings and determine, in collaboration with Safe Streets Research & Consulting (Safe Streets) and Toole Design which findings are appropriate for inclusion in a ESRI Story Map for public consumption.

The analysis looked at crashes that occurred during the pre-pandemic period (2017-2019) and during the pandemic (2020-2021) to control for changes in travel behaviors due to the COVID-19 pandemic.

Key findings

Reported crash data that involved a bicyclist was used as the primary dataset in this crash analysis. Reported crash data is critical to understanding crash patterns. While reported crash data is known to have problems with underreporting^{1,2}, it is often the most complete data source, in terms of the number and consistency of crash attributes available and the breadth and number of crashes included. As such, this data can provide the necessary detail for informing engineering treatments and help us understand who was involved in a crash. This report acknowledges the crash data used in this analysis provides us with an incomplete picture of crashes but allows us to use the most complete and readily available data that represents crash events and the people involved in crashes.

The below bulleted items are the key findings from this crash analysis.

Crashes

- **Number of bicycle crashes:**
 - Pre-Pandemic (2017 – 2019): 1,668 (556.0 per year)
 - Pandemic (2020 – 2021): 775 (382.0 per year)
 - 5-Year Study Period (2017 – 2021): 2,443 (486.4 per year)
- **Number of fatal and severe injury (KSI) bicycle crashes:**

¹ Stutts, J., & Hunter, W. (1998). Police reporting of pedestrians and bicyclists treated in hospital emergency rooms. Transportation Research Record: Journal of the Transportation Research Board, (1635), 88-92.

² San Francisco Department of Public Health-Program on Health, Equity and Sustainability. 2017. Vision Zero High Injury Network: 2017 Update – A Methodology for San Francisco, California. San Francisco, CA. Available at: https://www.sfdph.org/dph/files/EHSdocs/PHES/VisionZero/2017_Vision_Zero_Network_Update_Methodology_Final_20170725.pdf

- Pre-Pandemic 152 (52.7 per year)
- Pandemic: 78 (39.0 per year)
- 5-Year Study Period: 230 (47.2 per year)
- **Number of fatal bicycle crashes:**
 - Pre-Pandemic: 7 (2.3 per year)
 - Pandemic: 2 (1.0 per year)
 - 5-Year Study Period: 9 (1.8 per year)
- **Crashes by Year:**
 - Crashes and KSI crashes per year were highest during the pre-pandemic period.
 - There was a sharp reduction in crashes at the start of the pandemic. This reduction is likely related to changes in travel behaviors due to the COVID-19 pandemic safety precautions and Stay Home order that was in effect within San Francisco.
 - Crashes were slightly more likely to result in a KSI outcome in 2021 compared to previous years.
- **Injury Severity:**
 - Injury severity distribution was similar between the two study periods. Most bicyclists suffer from complaints of pain or some other visible injury type.
- **Pre-Crash Movement:**
 - Crash patterns between the pre-pandemic and pandemic period were similar.
 - Crashes that involved both the bicyclist and motorist proceeding straight accounted for the largest share of crashes and KSI crashes.
 - Crashes that involved a motorist making a left turn were on average more severe than crashes with motorists making a right turn.
 - Solo-bicyclist crashes were the most severe on average, but this is likely related to the nature in which solo-bicyclist crashes are reported. Less severe solo-bicycle crashes are generally not reported, therefore skewing the results.
 - Crashes that involved a stopped or parked motorist tend to result in a high rate of KSI outcomes. Many of these were dooring-related crashes and suggest the need for increased physical separation between bicyclists and vehicles.
- **Relative Direction:**
 - **Pre-Pandemic:** Same direction crashes accounted for the largest share of crashes and KSI crashes, followed by perpendicular (i.e., broadside) crashes. Perpendicular crashes tend to be slightly more severe on average.
 - **Pandemic:** perpendicular crashes comprised the largest share of all crashes and KSI crashes, followed by same direction crashes.
- **Crashes by Reported Violations:**
 - **Pre-Pandemic:** improper and unsafe turns accounted for the largest share of crashes and KSI crashes, followed by failure to yield while making a left turn and traveling too fast for conditions. Motorists were cited as the party at fault for 53% of all reported crashes and 46% of KSI crashes. Bicyclists were cited for 33% of all crashes and 36% of KSI crashes. Motorists were cited for most crashes related to improper or unsafe turns and failure to yield making a left turn. Bicyclists were cited for most crashes related to traveling too fast for conditions.
 - **Pandemic:** Improper or unsafe turn, disregarding a traffic signal, and too fast for conditions were the most common violation types. The party at fault for KSI crashes was substantially different during the pandemic period compared to the pre-pandemic

period. During the pre-pandemic, motorists were cited as the party at fault 47.4% of all crashes. Bicyclists were cited as the party at fault for 40.9% of those crashes. For KSI crashes, motorists were cited at fault in 29.1% of incidents, compared to 56.4% of KSI crashes where a bicyclist was cited at fault. Additionally, bicyclist at fault crashes were disproportionately severe relative to motorist at fault crashes.

- **2017-2021:** Bicyclists were cited as the party at fault for 56% of fatal crashes during the 5-year study period. This should be interpreted with caution as the fatally injured bicyclist was unable to provide their testimony.
- **Time of Day:**
 - Crash patterns by time of day were similar between the two study periods. Crashes were generally concentrated during the daytime, particularly around typical peak commute periods (6-9 AM and 3-6 PM).
 - When considering time of day by weekday vs. weekend, the pre-pandemic distributions followed common bicycle volumes distributions (weekend: highest crash frequencies during AM/PM commute periods; weekday: highest crash frequencies during midday). During the pandemic study period, the distribution of crashes for weekend and weekday crash patterns were nearly the same and were generally concentrated in the afternoon and evening.
- **Day of Week:**
 - Crashes were concentrated during the week (compared to the weekend) for both study periods. KSI crashes were highest on Fridays and lowest during the weekend for the pre-pandemic study period. During the pandemic, KSI crashes were slightly more concentrated on the weekends compared to pre-pandemic crashes.
- **Lighting Conditions:**
 - Daylight conditions accounted for most crashes as expected. Most trips occur during daylight conditions which contributes to higher crash frequencies.
 - Crashes that occurred during non-daylight conditions were more likely to result in a KSI outcome. The severity of nighttime crashes is likely related to reduced visibility and slower perception and reaction times, resulting in the motorist traveling at a higher speed (and having more kinetic energy) at the time of the crash.
- **Alcohol:**
 - There were ten crashes that involved a party (bicyclist or motorist) who was under the influence of alcohol during the 5-year study period.
- **Crash type - Mode:**
 - Most crashes included a bicyclist and motorist (83.1%), followed by solo-bicyclist (11.6%) and bicyclist-pedestrian (5.3%).
 - Just over one-fourth of bicycle KSI crashes involved only a bicyclist and no other parties (solo-bicycle crash). Solo-bicycle crashes were disproportionately severe compared to other crash types, which is likely associated with underreporting of less severe solo-bicycle crashes, therefore skewing the results.
- **Weather Condition:**
 - Most crashes occurred during clear weather conditions for both the pre-pandemic period (86%) and pandemic period (90%).

Parties

- **Race³:**
 - In both study periods, Black bicyclists and drivers are substantially overrepresented in crashes on a per capita (using San Francisco demographics) basis citywide. Census data show that Black residents make up 5% of San Francisco’s population but accounted for 9.6% of all bicycle crash victims and 8.6% of KSI bike victims, pre-pandemic. During the pandemic, these figures rose – Black bicyclists were involved in 11% of all bike crashes and 11.5% of KSI bike crashes. Additional research is needed to better understand travel behaviors and mode preferences or usage for each race.
- **Age:**
 - Bicyclists aged 25-39 accounted for the largest share of bicyclists involved in crashes, and particularly bicyclists aged between 30-34 years. Bicyclists aged between 20-34 were the most overrepresented parties involved in a crash for all three study periods.
 - Drivers aged 30-34 accounted for the largest share of drivers involved in crashes with a bicyclist for all three study periods while also being underrepresented in crashes on a citywide per capita basis. Drivers aged 20-24 and 35-59 were overrepresented in crashes on a citywide per capita basis.
- **Gender⁴:**
 - Male bicyclists accounted for the majority of bicyclists involved in crashes and KSI crashes during both study periods. This may be a reflection of gender-specific comfort related to riding a bicycle in traffic, related to personal safety, or other factors. Additional research is recommended to better understand the underlying factors for this finding.

Next Steps

- Safe Streets will begin the Step II analysis, which focuses on crash risk and location-specific findings through a systemic safety analysis.
- SFMTA and DPH will coordinate with Safe Streets to better understanding DUI reporting.
 - DPH may consider comparing the DUI crash rates per year with 2014-2016 crash data to get a sense of DUI/BUI prevalence during those years.
- Safe Streets will deliver the following files to Toole Design:
 - Excel workbook with source data, cross tabs (Pivot Tables), and plots
 - CSV file of crash data with geospatial attributes (using PostGIS geometries)
 - Final Step I Crash analysis Word Document

³ **Disclaimer:** Party race is based on officer’s assumption or visual impression, which can be problematic and inaccurate. Additionally, there are only five racial categories (excludes “Not Stated”) within the crash data, in contrast to the US Census, which has nearly twice as many race and ethnicity categories. The victim representation and comparison made to the San Francisco population should be interpreted with caution given these reporting shortcomings.

⁴ **Disclaimer:** Party gender is based on officer’s assumption or visual impression, which can be problematic and inaccurate. The only categorical values for gender in the crash report form include “male”, “female”, and “Not Stated” and do not include other personal gender identities. The victim representation and comparison made to the San Francisco population should be interpreted with caution given these reporting shortcomings.

- List of possible key findings and ideas for how those findings can be illustrated with graphics

Methodology

This analysis examines who was involved in bicycle crashes, when the bicycle crashes occurred, and contributing factors and circumstances using the reported information within the crash data. This crash analysis looked at the data stratified by two time periods: 2017-2019 (pre-pandemic) and 2020-2021 (pandemic). Stratifying the study period into these timeframes allows the research team to objectively analyze the crash data while controlling for the significant effect that the COVID-19 pandemic had on travel and behavioral patterns⁵.

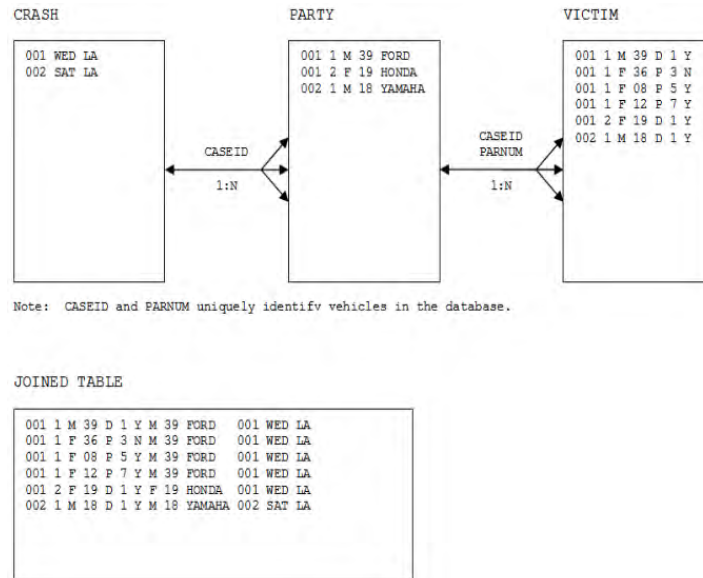
Crash Data Overview

Collision, party, and victim data were pulled from DataSF open data portal, which queries the crash data from TransBASE.sfgov.org. The crash data were downloaded on 11/22/2022, processed by Safe Streets, and loaded into a Postgres database for additional analysis. For detailed information regarding the sources of the collision records, please see detailed data summary hosted on DataSF's webpage ([here](#)).

The collision, party, and victim tables closely resemble the Statewide Integrated Transportation Record System (SWITRS) available via the Transportation Injury Mapping System (TIMS) hosted by UC Berkeley's Safe Transportation Research and Education Center (SafeTREC). Detailed information for the collision, party, and victim tables can be viewed [here](#). The collision, party, and victim tables have a relational structure, which is common for storing collision data. For every reported collision, there is one collision record. The party table contains information for all the primary "actors" involved in the collision and has a many-to-one relationship – i.e., all relevant party records are matched via a case identification number to the one collision record. The party table contains information for each primary person such as age, sex, race, direction of travel, and vehicle characteristics. Lastly, the victim table contains attributes for all victims associated with each party, such as the driver and all the passengers of the vehicle. The victims table has a many-to-one relationship with both the parties and collision tables. This relationship is displayed in a graphic displayed Figure 1 below:

⁵ Bureau of Transportation Statistics 2022. Daily Travel During the Covid-19 Public Health Emergency. Accessed February 15, 2022: <https://www.bts.gov/daily-travel>.

Figure 1: Relational Structure of Collision Data. Image Source: TIMS



The crash data used in this analysis was processed by Safe Streets to restructure the data, calculate and assign new variables, and assess the quality of the data through a robust quality control (QC) process. All reported crashes were processed (not just bicyclist crashes), but only crashes that involved at least one bicyclist are included in this analysis. These bicyclist crashes include any crash involving a bicyclist and motorist or pedestrian, as well as crashes in which there were no parties other than a single bicyclist (solo-bicyclist crashes).

Injury Severity Assignment

The officer-reported injury severity levels used in this analysis are specific to the most severely injured (MSI) bicyclist involved in the crash. This injury severity is different than the reported MSI assigned to each crash record (see Table 1, blue cells indicate the matched crash MSI and bicyclist MSI). In most cases, bicyclists are the most severely injured victim involved in the crash. Using the victim-level severity helps improve accuracy of summarizing injury severities. It should be noted that the San Francisco Department of Public Health (DPH) has documented reporting errors related to mis-coded injury severities, particularly for severe injuries⁶, suggesting a need for some fluidity when discussing minor and serious injuries. This analysis does not have access to DPH’s crash-level data to use the hospital reported or verified injury severities, so the results in this document reflect the best available data at the time.

For reference, the injury severities recorded in the crash data and summarized in this analysis are defined in the California Highway Patrol Collision Investigation Manual 555:

- **Fatal:** A fatal injury is any injury that results in death within 30 days after the motor vehicle collision in which the injury occurred. If the person did not die at the scene but died within 30 days of the motor vehicle collision in which the injury occurred, the injury classification should be changed from the injury previously assigned to “Fatal Injury

⁶ <https://www.visionzerosf.org/wp-content/uploads/2021/11/Severe-Injury-Trends-2011-2020-final-report.pdf>

- **Injury (Severe):** A suspected serious injury is any injury other than fatal which results in one or more of the following:
 - Severe laceration resulting in exposure of underlying tissues/muscles/organs or resulting in significant loss of blood.
 - Broken or distorted extremity (arm or leg).
 - Crush injuries.
 - Suspected skull, chest or abdominal injury other than bruises or minor lacerations.
 - Significant burns (second and third degree burns over 10% or more of the body).
 - Unconsciousness when taken from the collision scene.
 - Paralysis.
- **Injury (Minor):** A minor injury is any injury that is evident at the scene of the collision, other than fatal or serious injuries. Examples include lump on the head, abrasions, bruises, and minor lacerations (cuts on the skin surface with minimal bleeding and no exposure of deeper tissue/muscle).
- **Injury (Possible):** A possible injury is any injury reported or claimed which is not a fatal, suspected serious, or suspected minor injury. Examples include momentary loss of consciousness, claim of injury, limping, or complaint of pain or nausea. Possible injuries are those which are reported by the person or are indicated by their behavior, but no wounds or injuries are readily evident.

Table 1: Crash-level MSI and Bicycle MSI Comparison

Crash-Level MSI	Bike MSI	Total
Fatal	Fatal	8
Injury (Severe)	Injury (Severe)	220
	<i>Injury (Other Visible)</i>	2
	<i>Injury (Complaint of Pain)</i>	1
	<i>unknown</i>	12
Injury (Other Visible)	Injury (Other Visible)	994
	<i>Injury (Complaint of Pain)</i>	8
	<i>unknown</i>	51
Injury (Complaint of Pain)	<i>Injury (Severe)</i>	1
	<i>Injury (Other Visible)</i>	2
	Injury (Complaint of Pain)	1,092
	<i>unknown</i>	51
Medical⁷	<i>Fatal</i>	1
Total		2,443

As part of the crash data QC process, 114 crashes were found to be missing bicyclist victim records (see Table 2). The absence of bicyclist victim records prohibits assigning bicyclist MSI to each record with 100% certainty for all crashes. However, it's safe to assume the crash-level injury severity for solo-bicyclist crashes accurately reflects the bicyclist's injury. For crashes that involved a bicyclist and a motorist, it is generally safe to assume the bicyclist experience the most severe injury. While this may not be universally true, it is the likely outcome given that bicyclists are less protected than a motorist in a vehicle. For crashes that involved a pedestrian and bicyclist, however, assigning the crash-level injury severity to the bicyclist may be inaccurate as the MSI may apply to the pedestrian involved in the crash, not the bicyclist. The research team worked with the SFMTA to determine how to proceed with these crash records, presenting the SFMTA team with the following three options:

- **Option 1:** Drop bicyclist-pedestrian crashes without bicyclist victim records
- **Option 2:** Proportionally apply the injury levels from bicyclist-pedestrian crashes with known bicyclist MSI
- **Option 3:** Assign crashes a 50/50 split between Injury B (n=40) and Injury C (n=40), assuming all unknown MSI Injury A crashes (n=11) likely apply to the pedestrian

Ultimately, option two was selected as it applies the bicycle MSI informed by historic crash patterns. Crashes that were not assigned a bicycle MSI (injury C crashes; n=11) during this process were removed from the analysis.

⁷ This value is likely an error in the source data, which has been recoded to 'fatal' for this analysis.

Table 2:Crashes without Bicycle Victim Records

Crash Type	Crash-level MSI	Total
Bike-Vehicle	Injury (Severe)	1
	Injury (Other Visible)	10
	Injury (Complaint of Pain)	11
Bike-Pedestrian	Injury (Severe)	11
	Injury (Other Visible)	40
	Injury (Complaint of Pain)	40
Solo-Bike	Injury (Other Visible)	1
Total		114

Descriptive Analysis⁸

Crashes by Year

Reported bicycle crashes by year are summarized in Table 3. There is a clear difference in crash frequencies between the two study periods, with each year of pre-pandemic crashes frequencies accounting for between 22% and 24% of crashes during the 5-year period. In contrast, the annual share of crashes dramatically dropped to roughly 16% of crashes per year during the pandemic. The same pattern can be observed when looking at KSI crashes. The percentage of crashes resulting in a KSI was highest in 2021 (8.1%).

Table 3: Reported Bicycle Crashes by Year, 2017-2021

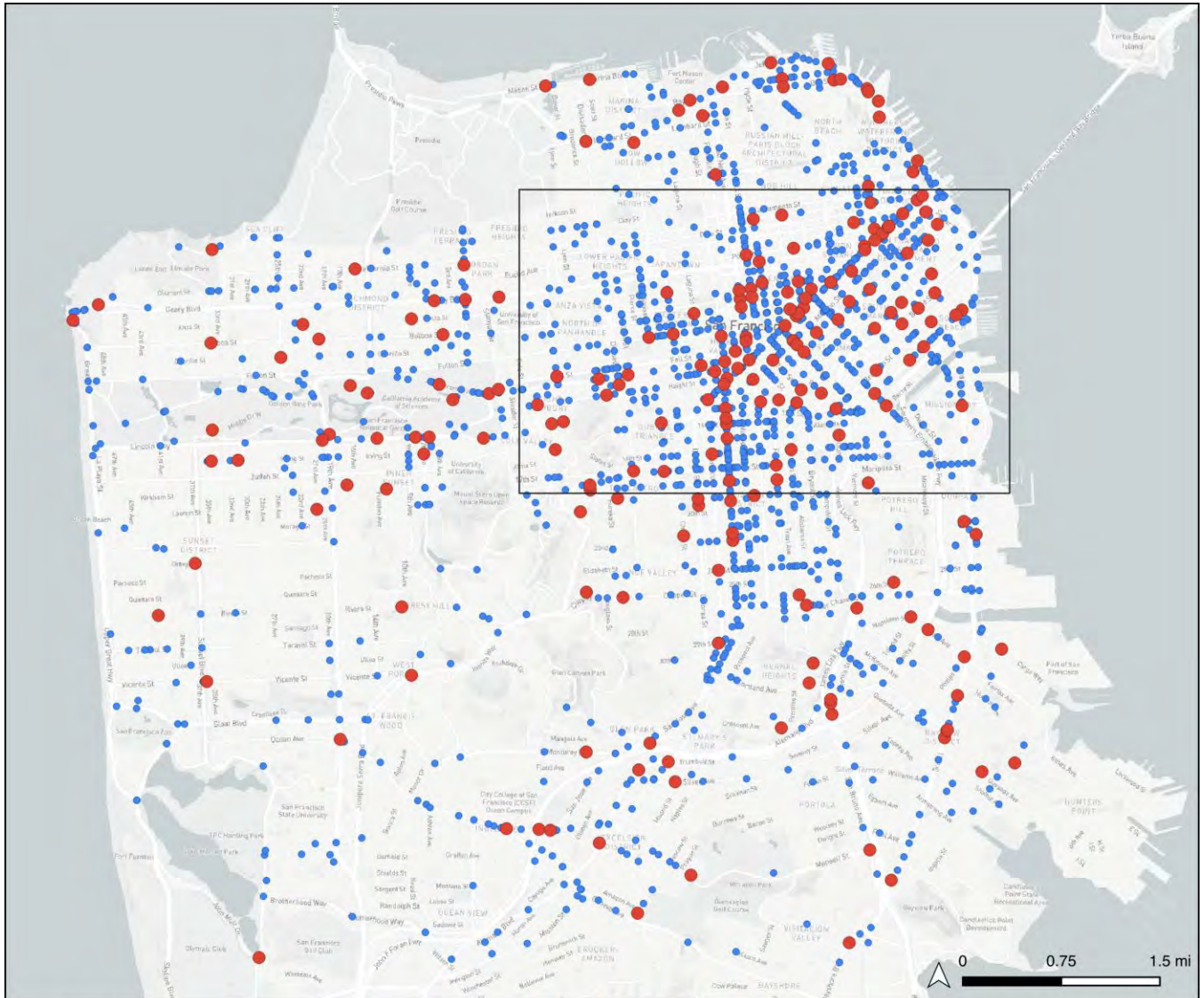
year	# Crashes	% Crashes	# KSI Crashes	% KSI	% Crashes that Resulted in KSI
2017	545	22.4%	35	21.2%	6.4%
2018	578	23.8%	40	24.2%	6.9%
2019	545	22.4%	35	21.2%	6.4%
2020	379	15.6%	24	14.5%	6.3%
2021	385	15.8%	31	18.8%	8.1%
Total	2,432	100.0%	165	100.0%	6.8%

Map 1 through Map 3 display the location of bicyclist crashes by study period. During the 5-year study period (Map 1), crashes were concentrated near the Downtown area and along corridors that connect nearby neighborhoods to Downtown. During the pre-pandemic (Map 2), crashes followed a similar pattern and were concentrated near Downtown or along corridors connecting to Downtown. Crashes that occurred during the pandemic (Map 3) were more geographically dispersed and less concentrated near Downtown than during the pre-pandemic period. Streets with noticeably lower crash densities during the pandemic study period include Valencia St, Market St, The Embarcadero, Polk St, and many other streets within or near Downtown. This likely reflects changes in commuting to Downtown and may also reflect other changes in bicyclist and motorist travel behaviors and route preferences during

⁸ **Magenta** text in the summary tables denote values of interest or data points related to key findings.

this time period. Step II of the San Francisco Active Communities Plan will include a deeper dive analysis of location-specific crash patterns and will focus on identifying crash risk factors, analyzing crashes along the High Injury Network, and investigating spatial patterns between the two time-periods.

Map 1: Bicyclist Crashes, 2017-2021

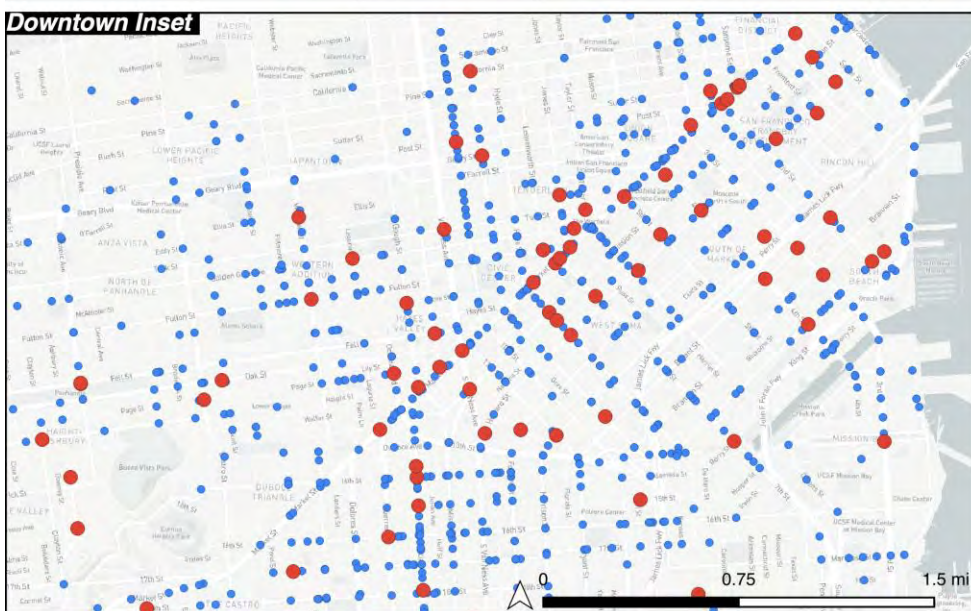
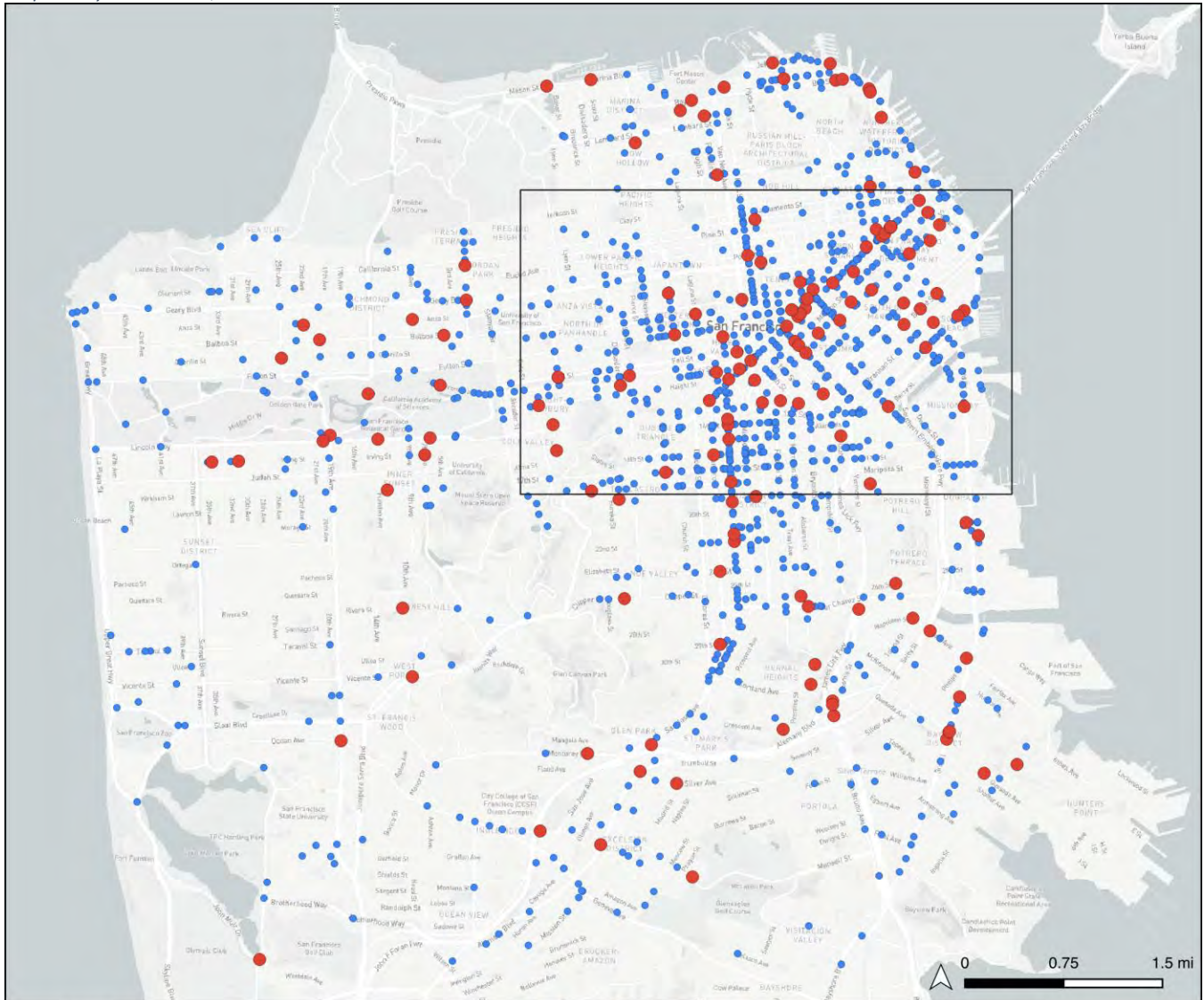


**Bicyclist Crashes
2017-2021**

- Fatal and Severe Injury Crashes
- All Other Injury Crashes



Map 2: Bicyclist Crashes, 2017-2019

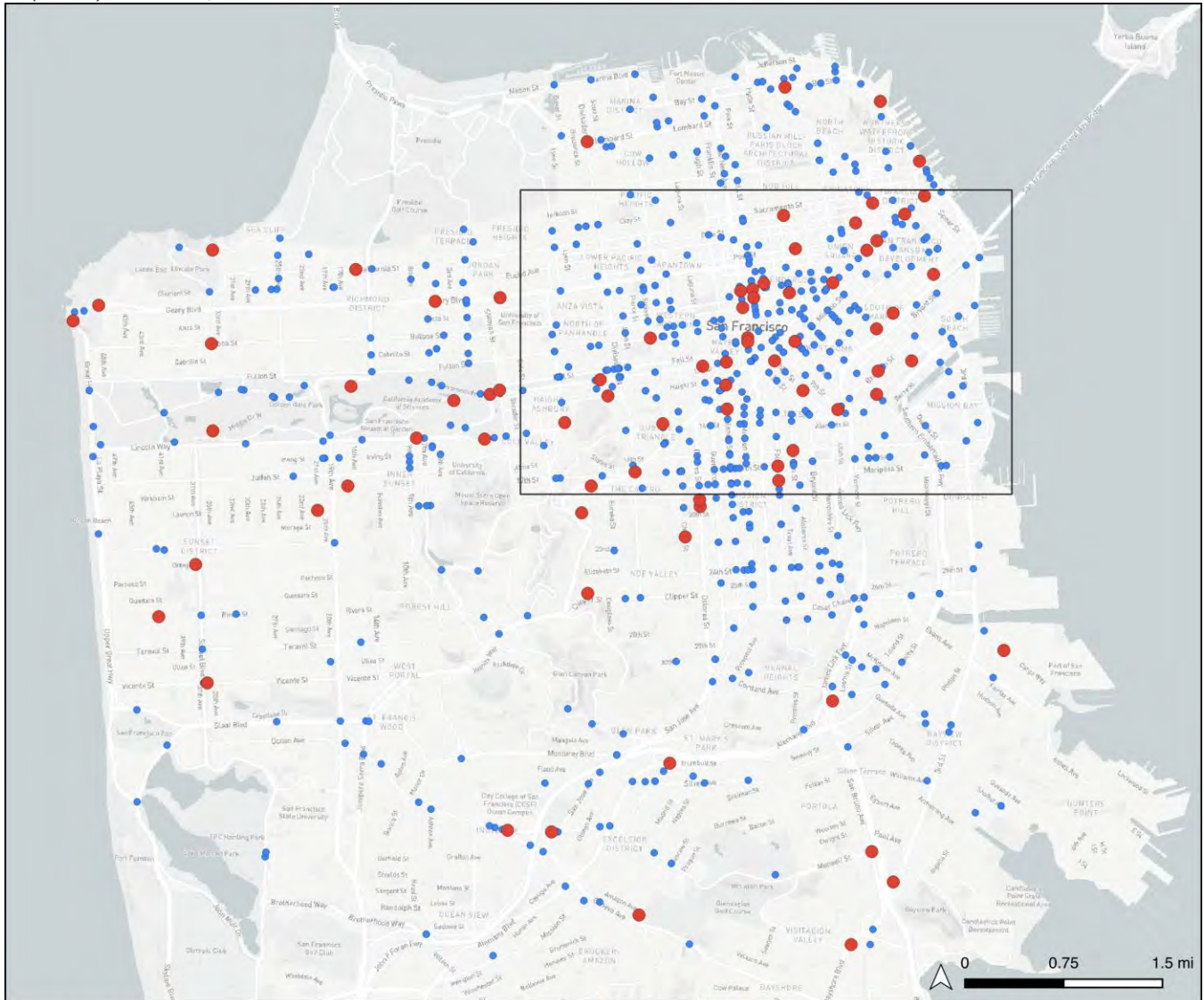


**Bicyclist Crashes
2017-2019**

- Fatal and Severe Injury Crashes
- All Other Injury Crashes



Map 3: Bicyclist crashes, 2020-2021



**Bicyclist Crashes
2020-2021**

- Fatal and Severe Injury Crashes
- All Other Injury Crashes



Crashes by Injury Type

Crashes are summarized by bicyclist MSI in Table 4. Most crashes that involved a bicyclist during the 5-year time frame resulted in less-severe injuries, reported as either complaint of pain (47.1%) or other visible injury (43.1%). Crash rates for all injury severities were higher during the pre-pandemic study period (556 crashes per year) than in the pandemic study period (382 crashes per year). This difference between crash rates is likely related to activity levels during the pre-pandemic relative to those during the COVID-19 pandemic. A *Stay Home order* throughout San Francisco was in effect March 19, 2020, and a corresponding drop in all travel, but particularly motor vehicle travel, could offset any naturally expected increase in crashes from higher bicycle travel in some areas. Regardless of crash rates, the distributions of injury types between the two study periods are similar.

Table 4: Bicycle Crashes by Injury Severity, 2017-2021

Injury Type	2017-2019			2020-2021			2017-2021		
	# Crashes	% Crashes	Crash Rate/ Year	# Crashes	% Crashes	Crash Rate/ Year	# Crashes	% Crashes	Crash Rate/ Year
Fatal	7	0.4%	2.3	2	0.3%	1.0	9	0.4%	1.8
Severe	151	9.1%	50.3	77	10.1%	38.5	228	9.4%	45.6
Other Visible	705	42.3%	235.0	344	45.0%	172.0	1,049	43.1%	209.8
Complaint of	805	48.3%	268.3	341	44.6%	170.5	1,146	47.1%	229.2
Total	1,668	100.0%	556.0	764	100.0%	382.0	2,432	100.0%	486.4

Crashes by Movement-Based Crash Types

Pre-crash movement crash types were developed by combining the bicyclist's pre-crash movement with the other primary party's pre-crash movement⁹. Solo-bicycle crashes are noted in the crash type and bicycle-pedestrian crashes use the pedestrian "action" (no bicycle-pedestrian crash types are in the top 10). See Appendix B for crashes summarizes for every crash type, not just the top 10.

Table 5 summarizes bicycle crashes that occurred during the pre-pandemic study period by injury severity and crash type for the ten crash types that had the highest frequency of reported crashes. Crashes that did not involve any type of turning movement (i.e., proceeded straight) accounted for the largest share of crashes, particularly crashes with both parties proceeding straight (18.6% crashes and 17.7% KSI crashes). Most of these crashes involved both parties traveling perpendicularly (57% of crashes; 68% KSI crashes), followed by same direction (33% of crashes; 21% KSI crashes).

Solo-bicyclist crashes had the largest share of KSI crashes (19.6%). This finding makes sense as most instances when someone riding a bicycle falls or strikes an object is involved in a crash, the victim generally will not report the crash unless they are severely injured and require medical help. Many of

⁹ Note: this crash type process will be updated in the Step II analysis, which will incorporate crash location (intersection vs. mid-block) and intersection control. Crash location will be spatially defined by proximity to the nearest intersection centroid. This revised crash type will help the team better understand the crash dynamics unique to specific location types, roadway characteristics, and land use and inform possible countermeasures to systemically improve safety throughout San Francisco.

these crashes were cited as the bicyclist traveling too fast for conditions (42%) and few crashes had a reported roadway condition that contributed to the crash (12%).

Crashes that involved a motorist making a left turn and striking a bicyclist proceeding straight accounted for the second largest share of overall crashes (12.9%) and third largest share of KSI crashes (10.8%). Crashes that involved a motorist making a right turn and striking a bicyclist proceeding straight had the third largest share of crashes (12.1%), fifth largest share of KSI crashes (7.6%), and a moderate-low share of crashes that resulted in a KSI outcome (5.9%). This finding is expected as a motorist’s speed making a right turn is often slower than a motorist’s speed making a left turn or proceeding straight, resulting in comparatively less kinetic energy transfer at the moment of impact.

Crashes that involved a bicyclist proceeding straight and a stopped motorist had the highest share of crashes that resulted in a KSI outcome (11.5%) and accounted for roughly 8% of KSI crashes (fourth highest), despite comprising only 6.8% of all crashes. These KSI crashes involved a motorist opening the vehicle door into the path of the bicyclist (i.e., dooring), either the motorist or the bicyclist traveling too slow or too fast for conditions, and a vehicle parked in bike lane. Dooring crashes were the predominant violation type and may suggest the need for additional physical separation between bicyclists and motor vehicles as well as educational outreach.

Table 5: Top 10 Bicycle Crashes by Pre-Crash Movements, 2017-2019

Rank	Bike + Motorist Movements	# Crashes	% Crashes	Crash Rate/ Year	# KSI	% KSI	KSI Crash Rate/ Year	% Crashes Resulting in KSI
--	<i>Not top 10</i>	491	29.4%	163.7	42	26.6%	14.0	8.6%
1	Proceeding Straight, Proceeding Straight	310	18.6%	103.3	28	17.7%	9.3	9.0%
2	Proceeding Straight, Making Left	215	12.9%	71.7	17	10.8%	5.7	7.9%
3	Proceeding Straight, Making Right	202	12.1%	67.3	12	7.6%	4.0	5.9%
4	Solo Bike Proceeding Straight	139	8.3%	46.3	31	19.6%	10.3	22.3%
5	Proceeding Straight, Stopped	113	6.8%	37.7	13	8.2%	4.3	11.5%
6	Proceeding Straight, Parked	48	2.9%	16.0	5	3.2%	1.7	10.4%
7	Making Left Turn, Proceeding Straight	46	2.8%	15.3	4	2.5%	1.3	8.7%
8	Proceeding Straight, Making U Turn	40	2.4%	13.3	1	0.6%	0.3	2.5%
9	Proceeding Straight, Entering Traffic	33	2.0%	11.0	3	1.9%	1.0	9.1%
10	Proceeding Straight, Changing Lanes	31	1.9%	10.3	2	1.3%	0.7	6.5%
	Total	1,668	100.0%	556.0	158	100.0	52.7	9.5%

Table 6 summarizes bicycle crashes that occurred during the pandemic study period by injury severity and crash type for the top ten crash types. The top crash types were similar during the pandemic study period as the pre-pandemic study period, but there were different concentrations of crashes by crash type. In particular, the pandemic study period had a higher percentage of KSI crashes that resulted from a bicyclist proceeding straight – motorist proceeding straight crash (26.9%). Most of these crashes had the same reported contributing factors as the pre-pandemic study period: disregarded traffic signal, failure to stop at stop sign, and traveling at unsafe speeds. Like the pre-pandemic study period,

most of these crashes involved both parties traveling perpendicularly (70% of crashes; 86% KSI crashes), followed by same direction (23% of crashes; 5% KSI crashes). Crashes that involved a bicyclist proceeding straight and a motorist making a left turn had a similar crash distribution as the pre-pandemic period, accounting for 13.7% of crashes and 9.0% of KSI crashes. Bicyclist proceeding straight and a motorist making a right turn accounted for a similar share of overall crashes (10.6%) but roughly half the share of KSI crashes (3.8%) compared to the pre-pandemic study period. Additionally, there were fewer crashes that involved a stopped or parked motor vehicle. Dooring crashes for these two crash types accounted for 63% (n=102) of crashes and 50% (n=9) of KSI crashes during the pre-pandemic period, in contrast to 46% of crashes (n=22) and 50% of KSI crashes (n=2) during the pandemic.

Table 6: Top 10 Bicycle Crashes by Pre-Crash Movements, 2020-2021

Rank	Bike + Motorist Movements	# Crashes	% Crashes	Crash Rate/Year	# KSI	% KSI	KSI Crash Rate/Year	% Crashes Resulting in KSI
--	<i>Not top 10</i>	202	26.4%	101.0	23	29.5%	11.5	11.4%
1	Proceeding Straight, Proceeding Straight	185	24.2%	92.5	21	26.9%	10.5	11.4%
2	Proceeding Straight, Making Left	105	13.7%	52.5	7	9.0%	3.5	6.7%
3	Proceeding Straight, Making Right	81	10.6%	40.5	3	3.8%	1.5	3.7%
4	Solo Bike Proceeding Straight	78	10.2%	39.0	16	20.5%	8.0	20.5%
5	Proceeding Straight, Stopped	34	4.5%	17.0	3	3.8%	1.5	8.8%
6	Making Left Turn, Proceeding Straight	24	3.1%	12.0	2	2.6%	1.0	8.3%
7	Proceeding Straight, Making U Turn	18	2.4%	9.0	1	1.3%	0.5	5.6%
8	Proceeding Straight, Parked	14	1.8%	7.0	1	1.3%	0.5	7.1%
9	Proceeding Straight, Entering	12	1.6%	6.0	1	1.3%	0.5	8.3%
10	Proceeding Straight, Changing	11	1.4%	5.5	0	0.0%	0.0	0.0%
	Total	764	100.0%	382.0	78	100.0%	39.0	10.2%

Crashes by Relative Direction (Bicycle-Motorist Crashes Only)

The relative direction of the bicyclist and motorist are summarized in Table 7 (pre-pandemic). Same direction crashes accounted for the largest share of crashes (46.5%) and KSI crashes (40.9%) but had a low percentage of crashes resulting in a KSI outcome (7.0%). Many of these crashes had a reported contributing factor cited as an improper or unsafe turn (29.1% crashes; 8.9% KSI crashes), dooring (15.8% crashes; 24.4% KSI crashes), and traveling too fast for conditions (12.5% crashes; 22.2% of KSI crashes). Perpendicular crashes accounted for the second largest share of crashes (34.0%) and KSI crashes (37.3%). Excluding unknown relative directions, perpendicular had the highest share of crashes that resulted in a KSI outcome (8.7%). Many of the perpendicular crashes involved a road user disregarding a traffic signal, improper or unsafe turn, failure to yield while making a turn, or disregarding a stop sign. Opposite direction crashes had the lowest share of crashes (13.0%) and KSI for crashes (10.9%) with known party direction of travel. Nearly half of the opposite direction crashes involved a party failing to yield while making a left turn or U-turn (34.8%), making an improper turn

(11.0%), or the bicyclist traveling in the wrong direction travel (9.9%). Crashes that involved a bicyclist traveling in the wrong direction of travel may be an indication of a bicycle network gap or lack of safe or comfortable crossing opportunities.

Table 7: Relative Direction of Travel between Bicyclist and Motorists, 2017-2019

Relative Direction	# Crashes	% Crashes	Crash Rate/Year	# KSI	% KSI	KSI Crash Rate/Year	% Crashes Resulting in KSI
Same	647	46.5%	215.7	45	40.9%	15.0	7.0%
Perpendicular	472	34.0%	157.3	41	37.3%	13.7	8.7%
Opposite	181	13.0%	60.3	12	10.9%	4.0	6.6%
Unknown	87	6.3%	29.0	12	10.9%	4.0	13.8%
Missing one party	3	0.2%	1.0	0	0.0%	-	0.0%
Total	1,390	100.0%	463.3	110	100.0	36.7	7.9%

Table 8 summarizes bicycle crashes by relative direction for crashes that occurred during the pandemic. Unlike pre-pandemic crashes, perpendicular crashes accounted for the largest share of crashes (47.1%) and KSI crashes (52.7%). Perpendicular crashes had a much larger share of KSI crashes and had a higher chance of a crash resulting in a KSI outcome (9.8%) compared to the pre-pandemic study period. Opposite direction crashes also accounted for a larger share of crashes. Many of these crashes are cited as the bicyclist traveling the wrong direction and the outcome had a higher chance of resulting in a KSI outcome compared to the pre-pandemic period. Aside from that difference, the contributing factors reported by the responding officer had similar distributions between study periods.

Table 8: Relative Direction of Travel between Bicyclist and Motorists, 2020-2021

Relative Direction	# Crashes	% Crashes	Crash Rate/Year	# KSI	% KSI	KSI Crash Rate/Year	% Crashes Resulting in KSI
Perpendicular	297	47.1%	148.5	29	52.7%	14.5	9.8%
Same	221	35.0%	110.5	16	29.1%	8.0	7.2%
Opposite	85	13.5%	42.5	8	14.5%	4.0	9.4%
Unknown	28	4.4%	14.0	2	3.6%	1.0	7.1%
Total	631	100.0%	315.5	55	100.0%	27.5	8.7%

Crashes by Reported Violations (Bicycle-Motor Vehicle Crashes Only)

The following section summarizes crashes by generalized reported violation types (see Appendix for the list of violation codes, definitions, and the generalized violation types summarized in the tables below). Similar violations have been grouped to simplify the analysis and to yield potentially more useful insights. It's important to note that some reporting bias or errors in reporting the primary collision violation may be present in some of these crashes. Responding officers attempt to assign each crash a primary collision violation based on the crash investigation and information provided from the parties (and/or witnesses) involved, but that does not always lead to the correct violation assignment.

Analyzing crash types, crash dynamics, and contextual characteristics can help provide a more objective picture of what contributed to the crash. It is recommended to interpret the following findings with caution.

Table 9 summarizes bicycle-motor vehicle crashes by reported violation types for crashes that occurred during the pre-pandemic period. The most frequent violation types include improper or unsafe turn (21.3% crashes; 15.5% KSI crashes), failure to yield while making a left turn (9.8% crashes, 7.3% KSI crashes), and traveling too fast for conditions (8.9% crashes; 15.5% KSI crashes). Improper turns and traveling too fast for conditions had the highest share of KSI crashes followed by disregarding the signal (11.8%) and dooring (10.0%). The majority of improper or unsafe turn crashes involved a motorist making a right turn (42.6%) followed by a motorist making a left turn (15.9%). A larger share of left turn crashes resulted in a KSI outcome (12.8%) than for right turn crashes (4.2%), which is likely due to left turning motorists traveling at a higher speed at the time of the crash.

The crash data includes a “party at fault” attribute *which should be interpreted with caution due to potential reporting biases or errors but may provide high-level insights into contributing factors. Additionally, bicyclists who were fatally injured were most likely unable to provide their testimony, which could lead to an inaccurate citation.* For overall bicycle-motor vehicle crashes, motorists were cited as the party at fault for 52.8% of crashes and 46.4% of KSI crashes, whereas bicyclists were cited as the party at fault for 33.4% of crashes and 35.5% of KSI crashes. Bicyclist at fault crashes were disproportionately severe compared to motorist at fault crashes. Looking at the party at fault for the highest frequency violation types may help us understand some behavioral patterns related to crashes.

Motorists were most frequently the party at fault for improper or unsafe turns (motorists cited in 72.3% of crashes and 88.2% of KSI crashes). There were roughly the same number of KSI crashes for at fault motorists making a right turn as there were making a left turn. The most common pre-crash movement for at fault bicyclists involved the bicyclist making a left turn while the motorist was proceeding straight (15 crashes; 1 KSI crash).

Failure to yield while making a left turn was cited as the motorist being at fault for 82.4% of crashes and 87.5% of KSI crashes. Most motorist at fault crashes involved both parties traveling in opposite directions (42.6% of crashes; 25.0% of KSI crashes) at the time of the crash, followed by perpendicular (30.9% of crashes; 37.5% of KSI crashes). Roughly half of these motorist at fault crashes occurred at a location with a functioning traffic control device¹⁰.

Bicyclists were most frequently cited as the party at fault for traveling too fast for conditions¹¹ (57.3% of crashes; 58.8% of KSI crashes). Most crashes involved a bicyclist proceeding straight and traveling in the same direction as the motorist. For both bicyclist at fault and motorist at fault crashes, roughly 14% of crashes resulted in a KSI outcome.

¹⁰ A more robust analysis into traffic control devices will be conducted using SFMTA traffic control data.

¹¹ Many cities throughout the US have observed an increased in motor vehicle speeds during the pandemic. Data related to bicyclist speed is not readily available and there is not known research that would suggest changes in bicyclist travel speeds before or during the pandemic. Additionally, the “traveling too fast for conditions” violation code may be used as a “catch-all” code for citing a bicyclist at fault, thereby artificially inflating the frequency of this violation type.

Table 9: Top 10 General Violation Types, 2017-2019

General Violation Type	# Crashes	% Crashes	Crash Rate/Year	# KSI	% KSI	KSI Crash Rate/Year	% Crashes Resulting in KSI
Improper or unsafe turn	296	21.3%	98.7	17	15.5%	5.7	5.7%
Failure to yield (left	136	9.8%	45.3	8	7.3%	2.7	5.9%
Too fast for conditions	124	8.9%	41.3	17	15.5%	5.7	13.7%
Dooring	124	8.9%	41.3	11	10.0%	3.7	8.9%
Disregard traffic signal	121	8.7%	40.3	13	11.8%	4.3	10.7%
Unknown	72	5.2%	24.0	7	6.4%	2.3	9.7%
Failure to yield	65	4.7%	21.7	3	2.7%	1.0	4.6%
Improper stop	64	4.6%	21.3	9	8.2%	3.0	14.1%
Overtaking	59	4.2%	19.7	1	0.9%	0.3	1.7%
Keep right	41	2.9%	13.7	2	1.8%	0.7	4.9%
Not Top 10 ¹²	288	20.7%	96.0	22	20.0%	7.3	7.6%
Total	1,390	100.0%	463.3	110	100.0%	36.7	7.9%

Table 10 summarizes bicycle-motor vehicle crashes by reported violation type for crashes that occurred during the pandemic period. The most frequent violation types include improper or unsafe turn (20.0% of crashes; 12.7% of KSI crashes), disregarding a traffic signal (13.0% of crashes, 20.0% of KSI crashes), and traveling too fast for conditions (10.5% of crashes; 10.9% of KSI crashes).

For overall bicycle-motor vehicle crashes, during the pre-pandemic motorists were cited as the party at fault for 47.4% of crashes and 29.1% of KSI crashes, whereas bicyclists were cited as the party at fault for 40.9% of crashes and 56.4% of KSI crashes during the pandemic. The party at fault for KSI crashes was substantially different during the pandemic period compared to the pre-pandemic period. Similarly, bicyclist at fault crashes were disproportionately severe during the pandemic relative to motorist at fault crashes.

Improper or unsafe turns were associated with the largest share of overall crashes (20%) and the second largest share of KSI crashes (12.7%). These crashes generally involved an at fault motorist making a right turn (30.2%), making a left turn (12.7%), and changing lanes (7.9%). When the bicyclist was at fault, the bicyclist was most frequently making a left turn (7.9%), followed by changing lanes (5.6%). This violation type did not generally result in a high share of crashes resulting in a KSI outcome: 5.6% of these crashes resulted in a KSI compared to the pandemic average for all crash types of 8.7%.

Disregarding traffic signals had the largest share of KSI crashes and had a relatively high share of crashes that resulted in a KSI outcome (13.4%), indicating a potentially greater tendency toward severity than other violation types. Two-thirds of these crashes assigned fault to the bicyclist. Most crashes involved the bicyclist and motorist traveling in perpendicular travel directions.

¹² There were 26 violation types not in the top 10. The violation type with the largest share of crashes accounted for 2.4% of crashes.

Table 10: Top 10 General Violation Types, 2020-2021

General Violation Type	# Crashes	% Crashes	Crash Rate/Year	# KSI	% KSI	KSI Crash Rate/Year	% Crashes Resulting in KSI
Improper or unsafe turn	126	20.0%	42.0	7	12.7%	2.3	5.6%
Disregard traffic signal	82	13.0%	27.3	11	20.0%	3.7	13.4%
Too fast for conditions	66	10.5%	22.0	6	10.9%	2.0	9.1%
Failure to yield (left turn)	54	8.6%	18.0	3	5.5%	1.0	5.6%
Failure to yield	42	6.7%	14.0	3	5.5%	1.0	7.1%
Improper stop	42	6.7%	14.0	2	3.6%	0.7	4.8%
Unknown	37	5.9%	12.3	3	5.5%	1.0	8.1%
Keep right	32	5.1%	10.7	4	7.3%	1.3	12.5%
Dooring	27	4.3%	9.0	3	5.5%	1.0	11.1%
Overtaking	23	3.6%	7.7	5	9.1%	1.7	21.7%
Not Top 10 ¹³	100	15.8%	33.3	8	14.5%	2.7	8.0%
Total	631	100.0%	210.3	55	100.0	18.3	8.7%

Crashes by Time of Day

Crashes by time of day are summarized in Table 11 for the pre-pandemic time period. Bicycle crashes overall and KSI crashes specifically occurred most frequently near typical commute periods (6am-9am) and (3pm-6pm), with a moderate share of crashes that occurred midday and fewer crashes during the late-night/early morning hours. While crashes were less frequent during the late-night and early morning hours, those crashes tended to be more severe, with 13-29% of those crashes resulting in a KSI outcome compared to 7% during the day. The midnight-3am period only accounted for 2.3% of crashes but accounted for 7% of KSI crashes. This higher share of crashes resulting in a KSI outcome is consistent with the findings noted in the lighting conditions portion of this memo – dark lighting conditions are associated with higher injury severity when a crash occurs.

¹³ There were 23 violation types not in the top 10. The violation type with the largest share of crashes accounted for 1.9% of crashes.

Table 11: Bicycle Crashes by Severity and Time of Day, 2017-2019

Time of Day	# Crashes	% Crashes	Crash Rate/Year	# KSI	% KSI	KSI Crash Rate/Year	% Crashes Resulting in KSI
12:00-2:59am	38	2.3%	12.7	11	7.0%	3.7	29%
3:00-5:59am	11	0.7%	3.7	3	1.9%	1.0	27%
6:00-8:59am	241	14.4%	80.3	29	18.4%	9.7	12%
9:00-11:59am	310	18.6%	103.3	23	14.6%	7.7	7%
12:00-2:59pm	257	15.4%	85.7	19	12.0%	6.3	7%
3:00-5:59pm	365	21.9%	121.7	33	20.9%	11.0	9%
6:00-8:59pm	330	19.8%	110.0	25	15.8%	8.3	8%
9:00-11:59pm	112	6.7%	37.3	14	8.9%	4.7	13%
Unknown	4	0.2%	1.3	1	0.6%	0.3	25%
Total	1,668	100.0%	556.0	158	100.0%	52.7	9%

Table 12 summarizes crashes by time of day for crashes that occurred during the pandemic period. Like pre-pandemic crash patterns, crashes are generally concentrated around the peak commute period. Two noticeable differences between the two study periods include the larger share of midday and early evening crashes and a lower share of morning crashes during the pandemic study periods. Additionally, the crashes that did occur in the early morning hours were less likely to result in a KSI compared to those in pre-pandemic years. Conversely, the pandemic-era evening crashes were more likely to result in a KSI compared to pre-pandemic years.

Table 12: Bicycle Crashes by Severity and Time of Day, 2020-2021

Time of Day	# Crashes	% Crashes	Crash Rate/Year	# KSI	% KSI	KSI Crash Rate/Year	% Crashes Resulting in KSI
12:00-2:59am	15	2.0%	7.5	3	3.8%	1.5	20%
3:00-5:59am	10	1.3%	5.0	2	2.6%	1.0	20%
6:00-8:59am	74	9.7%	37.0	8	10.3%	4.0	11%
9:00-11:59am	103	13.5%	51.5	9	11.5%	4.5	9%
12:00-2:59pm	159	20.8%	79.5	16	20.5%	8.0	10%
3:00-5:59pm	202	26.4%	101.0	15	19.2%	7.5	7%
6:00-8:59pm	144	18.8%	72.0	18	23.1%	9.0	13%
9:00-11:5pm	57	7.5%	28.5	7	9.0%	3.5	12%
Total	764	100.0%	382.0	78	100.0%	39.0	10%

Figure 2 and Figure 3 display crashes by hour of day stratified by weekend vs. weekday for the pre-pandemic and pandemic time periods, respectively. Weekday bicyclist volumes are typically concentrated during peak commute periods whereas weekend bicycle volumes are often highest midday, and it's common to observe higher frequencies of bicycle crashes during these time periods due to higher levels of exposure. This typicality is observable in Figure 2 (pre-pandemic), but not in Figure 3 (pandemic). This difference is likely associated with the Stay Home order and a higher rate of working from home, as well as increased recreational trips. A comparison between this finding and the Bike Count analysis being conducted as part of this planning effort may help nuance these findings.

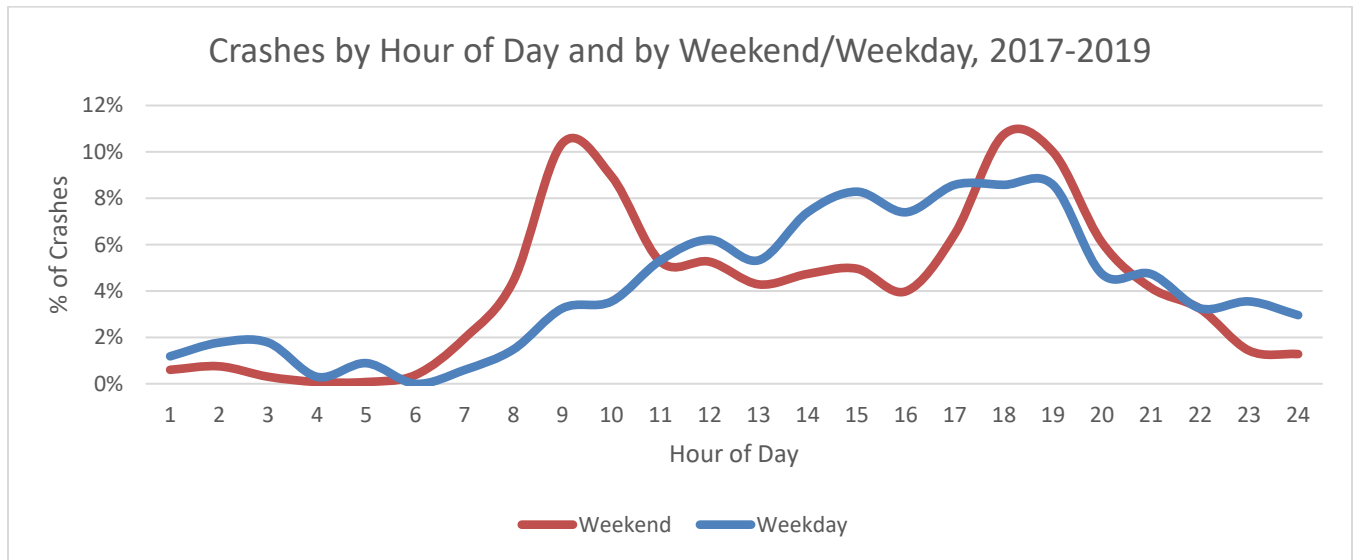


Figure 2: Crashes by Hour of Day Stratified by Weekend vs. Weekday, 2017-2019

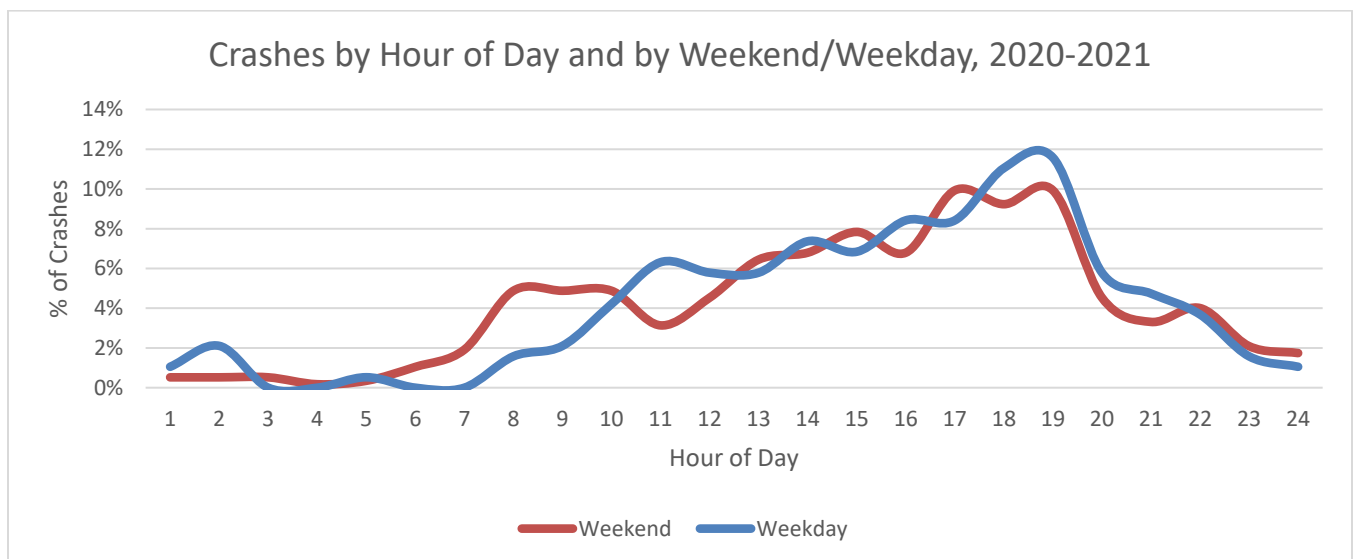


Figure 3: Crashes by Hour of Day Stratified by Weekend vs. Weekday, 2020-2021

Crashes by Day of Week

Crash rates by day of week, injury severity, and by study period are summarized in Table 13. Crash rates were generally higher for each day during the pre-pandemic study period. Overall crashes and KSI

crashes were generally concentrated during the weekday for both study periods. During the pre-pandemic study period, crash rates were lowest during the weekend and on Monday. However, KSI crash rates were slightly more concentrated between Saturday through Monday during the pandemic study period compared to the pre-pandemic and 5-year study periods.

Table 13: Bicycle Crash Rates by Day of Week

Day of Week	Crash Rate/Year			KSI Crash Rate/Year		
	2017-2019	2020-2021	2017-2021	2017-2019	2020-2021	2017-2021
Sunday	52.00	44.50	49.00	3.67	4.50	4.00
Monday	70.67	41.00	58.80	5.33	6.00	5.60
Tuesday	87.33	61.50	77.00	8.67	4.00	6.80
Wednesday	95.67	59.00	81.00	10.00	6.00	8.40
Thursday	100.00	62.50	85.00	10.33	5.50	8.40
Friday	89.67	67.50	80.80	8.00	8.00	8.00
Saturday	60.67	51.00	56.80	4.67	5.00	4.80
Unknown	0.00	0.50	0.20	0.00	0.00	0.00
Total	417.00	387.50	488.60	38.00	39.00	46.00

The distribution of crashes by day of week is summarized in Table 14 (pre-pandemic) and Table 15 (pandemic). For both pre-pandemic and pandemic study periods, crashes occurred least often during the weekend and early weekdays (specifically Monday). Comparing the distribution of KSI crashes, pre-pandemic crashes were generally concentrated during weekdays (39.9% of KSI crashes; highest on Wednesday and Thursday), whereas KSI crashes during the pandemic period were highest on Fridays (20.5%) and otherwise relatively high on Monday, Wednesday, and Thursday (44.9% cumulatively).

The percentage of overall crashes and KSI crashes that occurred during the weekend was slightly higher during the pandemic study period compared to the pre-pandemic study period. This is likely associated with changes in travel behaviors, increases in recreational bicycling (typically occurring during the weekend), and higher rates of people working from home.

Table 14: Bicycle Crashes by Severity and Day of Week, 2017-2019

Day of week	# Crashes	% Crashes	Crash Rate/Year	# KSI	% KSI	KSI Crash Rate/Year	% Crashes Resulting in KSI
Sunday	156	9.4%	52.0	11	7.0%	3.7	7.1%
Monday	212	12.7%	70.7	17	10.8%	5.7	8.0%
Tuesday	262	15.7%	87.3	27	17.1%	9.0	10.3%
Wednesday	287	17.2%	95.7	32	20.3%	10.7	11.1%
Thursday	300	18.0%	100.0	31	19.6%	10.3	10.3%
Friday	269	16.1%	89.7	26	16.5%	8.7	9.7%
Saturday	182	10.9%	60.7	14	8.9%	4.7	7.7%
2017-2019 Total	1,668	100.0%	556.0	158	100.0%	52.7	9.5%

Table 15: Bicycle Crashes by Severity and Day of Week, 2020-2022

Day of week	# Crashes	% Crashes	Crash Rate/Year	# KSI	% KSI	KSI Crash Rate/Year	% Crashes Resulting in KSI
Sunday	88	11.5%	44.0	9	11.5%	4.5	10.2%
Monday	82	10.7%	41.0	12	15.4%	6.0	14.6%
Tuesday	119	15.6%	59.5	8	10.3%	4.0	6.7%
Wednesday	117	15.3%	58.5	12	15.4%	6.0	10.3%
Thursday	123	16.1%	61.5	11	14.1%	5.5	8.9%
Friday	132	17.3%	66.0	16	20.5%	8.0	12.1%
Saturday	102	13.4%	51.0	10	12.8%	5.0	9.8%
Unknown	1	0.1%	0.5	0	0.0%	0.0	0.0%
2020-2021 Total	764	100.0%	382.0	78	100.0%	39.0	10.2%

Crashes by Lighting Condition

Crashes by reported lighting condition are summarized in Table 16 (pre-pandemic) and Table 17 (pandemic). Both study periods have similar overall crash and KSI crash distributions – most crashes occurred during daylight conditions. This is expected as most trips are made during this period with daylight conditions. However, lighting condition clearly affects safety: crashes that occurred in darkness or low-light (i.e., dusk or dawn) conditions were much more likely to result in a KSI outcome compared to those that occurred during daylight. Lack of visibility and slower perception and reaction times are likely contributing factors for these nighttime crashes. Slower perception and reaction times can result in the motorist traveling at a higher speed (and transferring more kinetic energy) at the time of the crash, leading to a more severe outcome.

Table 16: Bicycle Crashes by Severity and Lighting Condition, 2017-2019

lighting	# Crashes	% Crashes	Crash Rate/Year	# KSI	% KSI	KSI Crash Rate/Year	% Crashes Resulting in KSI
Daylight	1,223	73.3%	407.7	95	62.5%	31.7	7.8%
Dark - Street Lights	320	19.2%	106.7	41	27.0%	13.7	12.8%
Dusk - Dawn	72	4.3%	24.0	9	5.9%	3.0	12.5%
Not Stated	34	2.0%	11.3	4	2.6%	1.3	11.8%
Dark - No Street Lights	16	1.0%	5.3	2	1.3%	0.7	12.5%
Dark - Street Lights Not	3	0.2%	1.0	1	0.7%	0.3	33.3%
2017-2019 Total	1,668	100.0%	556.0	152	100.0%	50.7	9.1%

Table 17: Bicycle Crashes by Severity and Lighting Condition, 2020-2022

lighting	# Crashes	% Crashes	Crash Rate/Year	# KSI	% KSI	KSI Crash Rate/Year	% Crashes Resulting in KSI
Daylight	563	73.7%	281.5	53	67.9%	26.5	9.4%
Dark - Street Lights	162	21.2%	81.0	19	24.4%	9.5	11.7%
Dusk - Dawn	23	3.0%	11.5	3	3.8%	1.5	13.0%
Not Stated	9	1.2%	4.5	0	0.0%	0.0	0.0%
Dark - No Street Lights	5	0.7%	2.5	2	2.6%	1.0	40.0%
Dark - Street Lights Not Functioning	2	0.3%	1.0	1	1.3%	0.5	50.0%
2020-2022 Total	764	100.0%	382.0	78	100.0%	39.0	10.2%

Crashes by Under the Influence of Alcohol

Between 2017-2021, only ten crashes that involved a motorist or a bicyclist who was under the influence and impaired. This is substantially fewer crashes than anticipated. Further research and coordination may help us understand this very low number of alcohol-related crashes.

Table 18: Bicycle Crashes that Involve a Party Who Was Under the Influence of Alcohol, 2017-2021

Party Type	2017-2019	2020-2022	Total
Bicyclist	1	3	4
Driver	3	2	5
Pedestrian	1	0	1
Total	5	5	10

Crashes by Weather Condition

Crashes are summarized by reported weather conditions for pre-pandemic crashes (Table 19) and pandemic crashes (Table 20). The vast majority of crashes occurred in clear weather conditions for both the pre-pandemic (86%) and pandemic (90%) study periods. Crashes that occurred during the pandemic when the weather condition was cloudy were slightly more severe compared to clear conditions, though the number of KSI crashes is relatively small and may be a contributing factor in the higher share of crashes resulting in a KSI outcome.

Table 19: Bicycle Crashes by Weather Condition, 2017-2019

Weather	# Crashes	% Crashes	Crash Rate/ Year	# KSI	% KSI	KSI Crash Rate/ Year	% Crashes Resulting in KSI
Clear	1,431	85.8%	477.0	136	86.1%	45.3	9.5%
Cloudy	125	7.5%	41.7	12	7.6%	4.0	9.6%
Raining	53	3.2%	17.7	3	1.9%	1.0	5.7%
Not Stated	39	2.3%	13.0	3	1.9%	1.0	7.7%
Other	14	0.8%	4.7	2	1.3%	0.7	14.3%
Wind	5	0.3%	1.7	1	0.6%	0.3	20.0%
Fog	1	0.1%	0.3	1	0.6%	0.3	100.0%
Total	1,668	100.0%	556.0	158	100.0%	52.7	9.5%

Table 20: Bicycle Crashes by Weather Condition, 2020-2021

Weather	# Crashes	% Crashes	Crash Rate/ Year	# KSI	% KSI	KSI Crash Rate/ Year	% Crashes Resulting in KSI
Clear	684	89.5%	342.0	69	88.5%	34.5	10.1%
Cloudy	57	7.5%	28.5	8	10.3%	4.0	14.0%
Raining	11	1.4%	5.5	0	0.0%	0.0	0.0%
Not Stated	9	1.2%	4.5	1	1.3%	0.5	11.1%
Other	3	0.4%	1.5	0	0.0%	0.0	0.0%
Total	764	100.0%	382.0	78	100.0%	39.0	10.2%

Parties Involved

This section reports on the number of parties involved in bicycle crashes – the main road users/vehicles involved in the crash, such as drivers, pedestrians, bicyclists, and parked vehicles. There will be more than one party for every crash record summarized in this memo except for solo-bicyclist crashes.

Analyzing the parties involved in crashes with at least one bicyclist provides additional insight into these crashes and potential crash dynamics. This analysis compared the distribution of parties involved in crashes to the population distribution of San Francisco. Values greater than one suggest that a certain segment of the population is overrepresented on a per capita basis, while values less than one suggest that that segment of the population is underrepresented on the same basis. It's important to note that this comparison is imperfect in two ways. First, if more or fewer people from a segment of the population bicycle, we would expect that to be reflected in crash rates, all else equal – and this proportion of people who bicycle may not reflect their per capita proportion. We likely see this, for example, in trends related to age and sex, and potentially related to race. In the absence of more nuanced exposure data, however, a per capita understanding is still valuable to help us understand how crashes are distributed among various segments of the population. Second, the home zip code is not readily available for all parties involved in the crash, so we cannot rule out that some people riding a bicycle or driving a motor vehicle live outside of San Francisco and their inclusion will therefore marginally affect the accuracy of the victim-to-population ratio. This affect is more likely to apply to drivers than to bicyclists in San Francisco.

Bicyclist Age

Table 21 summarizes the number of bicyclists involved in a crash by age for the three study periods, Figure 4 displays bicyclist representation by age, Figure 5 and displays KSI bicyclist representation by age. Bicyclists aged 25-39 – and particularly those aged 25-34 – accounted for the largest share of bicyclists involved in crashes in both time periods. Bicyclists aged 20-34 were the most overrepresented parties involved in a crash for all three study periods. Bicyclists aged 40-44 and 50-54 were overrepresented to a greater degree during the pandemic periods than in the pre-pandemic study period. Younger bicyclists were underrepresented in all years, but comprised a higher percentage of the parties during the pandemic compared to pre-pandemic crashes.

The distribution of KSI crashes by bicyclist age closely resembles the distribution for overall crashes. Similar to overall crashes, bicyclists aged between 20-25 and 30-39 were the most overrepresented in KSI crashes. There are some noticeable differences between the pre-pandemic and pandemic KSI bicyclist representation for bicyclists aged between 40-44 and 50-54, which is largely due to small sample sizes for both study periods.

Table 21: Number of Bicyclists Involved in a crash, by age and study period, 2017-2022

Bicyclist Age	% Parties			Population		Representation		
	2017-2019	2020-2022	All Years	#	%	2017-2019	2020-2022	All Years
0 – 4	0.0%	0.3%	0.1%	38,219	4.4%	0.00	0.06	0.02
5 – 9	0.2%	0.9%	0.4%	30,641	3.5%	0.05	0.25	0.12
10 – 14	0.7%	1.0%	0.8%	31,831	3.7%	0.18	0.28	0.21
15 – 19	2.6%	2.6%	2.6%	31,520	3.6%	0.70	0.70	0.70
20 – 24	9.1%	7.4%	8.6%	44,753	5.2%	1.77	1.44	1.66
25 – 29	18.5%	16.4%	17.8%	94,090	10.9%	1.70	1.51	1.64
30 – 34	18.8%	18.1%	18.6%	101,572	11.7%	1.60	1.54	1.58
35 – 39	12.3%	11.3%	12.0%	79,269	9.2%	1.34	1.23	1.31
40 – 44	8.6%	9.7%	9.0%	60,203	7.0%	1.24	1.40	1.29
45 – 49	7.3%	6.4%	7.0%	58,302	6.7%	1.08	0.95	1.04
50 – 54	6.6%	9.0%	7.4%	55,772	6.4%	1.03	1.39	1.14
55 – 59	6.1%	6.0%	6.1%	52,366	6.0%	1.01	1.00	1.00
60 – 64	3.0%	3.3%	3.1%	49,442	5.7%	0.53	0.58	0.55
65 – 69	2.3%	2.3%	2.3%	43,329	5.0%	0.47	0.46	0.46
70 – 74	1.0%	1.4%	1.1%	35,260	4.1%	0.25	0.35	0.28
75 – 79	0.4%	0.8%	0.5%	21,605	2.5%	0.17	0.31	0.21
80 – 84	0.2%	0.3%	0.2%	15,965	1.8%	0.13	0.14	0.13
85+	0.0%	0.0%	0.0%	21,794	2.5%	0.00	0.00	0.00
Unknown	2.3%	2.9%	2.5%	-	-	-	-	-
Total	100.0%	100.0	100.0%	-	100.0%	-	-	-
	1,676	781	2,457	865,933	-	-	-	-

Representation values greater than 1 indicates that age cohort is overrepresented in crashes. Values less than 1 indicate underrepresentation.

Figure 4: Bicyclist Representation by Age, 2017-2021

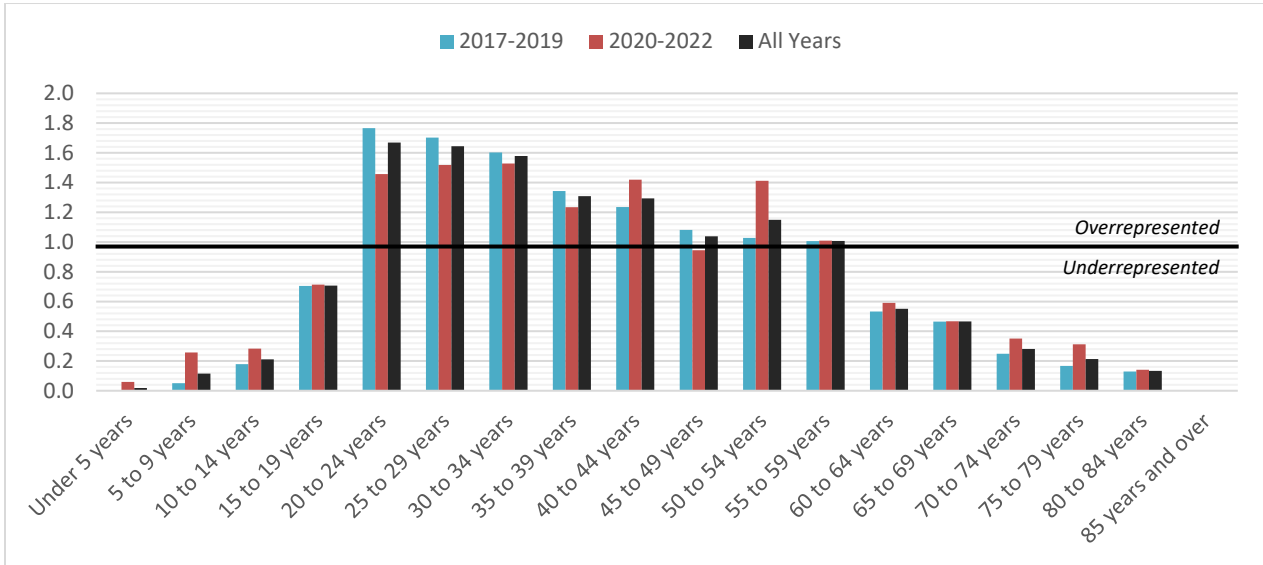
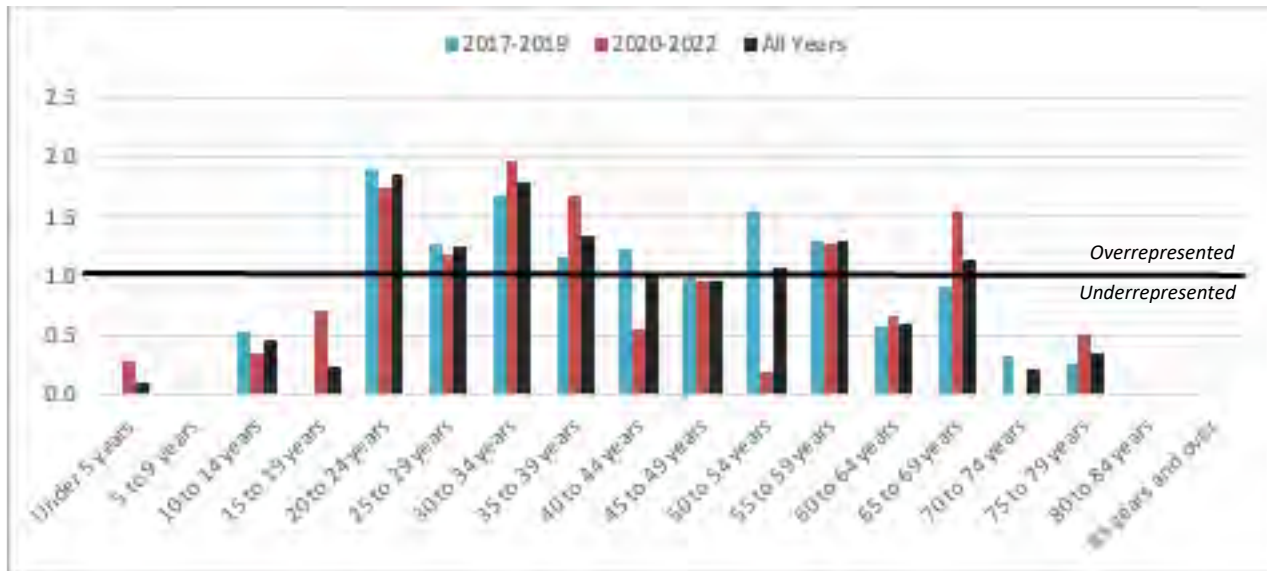


Figure 5: KSI Bicyclist Representation by Age, 2017-2021



Driver Age

Table 22 summarizes drivers involved in bicycle crashes by age and study period, Figure 6 displays the representation of drivers by age, Figure 7 and displays the representation of drivers by age involved in KSI crashes. The distributions of drivers between study periods are similar, with only minor differences no larger than two percentage points. Drivers aged 30-34 accounted for the largest share of drivers involved in crashes with a bicyclist for all three study periods. Like bicyclists, drivers were overrepresented on a per capita basis across a broad range of age cohorts in one or both time periods (20-24 and 35-59). Drivers aged 25-39 were generally underrepresented in these same time periods.

Driver representation in KSI crashes was slightly different than for overall crashes. Drivers aged 25-29 and 40-49 were the most overrepresented in the pre-pandemic period, whereas drivers aged 30-39 and 45-59 were the most overrepresented during the pandemic study period. Representation for both study periods should be interpreted with caution due to the smaller sample sizes for KSI crashes (116 drivers for pre-pandemic study period, 56 drivers for the pandemic study period).

Table 22: Number of Drivers Involved in a crash by age and study period, 2017-2022

Driver Age	% Parties			Population		Representation		
	2017-2019	2020-2022	All Years	# Population	% Population	2017-2019	2020-2022	All Years
0 – 4 ¹⁴	0.1%	0.5%	0.2%	38,219	4.4%	0.02	0.11	0.04
5 – 9	0.0%	0.0%	0.0%	30,641	3.5%	0.00	0.00	0.00
10 – 14	0.0%	0.0%	0.0%	31,831	3.7%	0.00	0.00	0.00
15 – 19	2.1%	1.3%	1.8%	31,520	3.6%	0.58	0.34	0.51
20 – 24	6.4%	5.9%	6.3%	44,753	5.2%	1.24	1.15	1.21
25 – 29	8.6%	6.9%	8.1%	94,090	10.9%	0.80	0.63	0.75
30 – 34	10.3%	10.2%	10.3%	101,572	11.7%	0.88	0.87	0.88
35 – 39	8.3%	10.2%	8.9%	79,269	9.2%	0.91	1.11	0.97
40 – 44	8.2%	8.3%	8.2%	60,203	7.0%	1.17	1.19	1.18
45 – 49	8.4%	8.3%	8.3%	58,302	6.7%	1.24	1.23	1.24
50 – 54	8.2%	7.8%	8.1%	55,772	6.4%	1.28	1.21	1.26
55 – 59	6.7%	8.3%	7.2%	52,366	6.0%	1.10	1.37	1.19
60 – 64	5.6%	4.9%	5.4%	49,442	5.7%	0.98	0.85	0.94
65 – 69	4.1%	2.8%	3.7%	43,329	5.0%	0.81	0.56	0.74
70 – 74	3.1%	2.2%	2.8%	35,260	4.1%	0.76	0.54	0.69
75 – 79	1.1%	1.9%	1.3%	21,605	2.5%	0.42	0.75	0.52
80 – 84	0.6%	0.9%	0.7%	15,965	1.8%	0.34	0.51	0.39
85+	0.0%	0.0%	0.0%	21,794	2.5%	0.00	0.00	0.00
Unknown	18.3%	19.7%	18.7%	-	-	-	-	-
Total	100.0%	100.0%	100.0%	-	100.0%	-	-	-
	1,423	639	2,062	865,933	-	-	-	-

Representation values greater than 1 indicates that age cohort is overrepresented in crashes. Values less than 1 indicate underrepresentation.

¹⁴ Values greater than 0% for cohorts younger than 16 years of age are likely reporting errors in the crash data.

Figure 6: Driver Representation by Age, 2017-2021

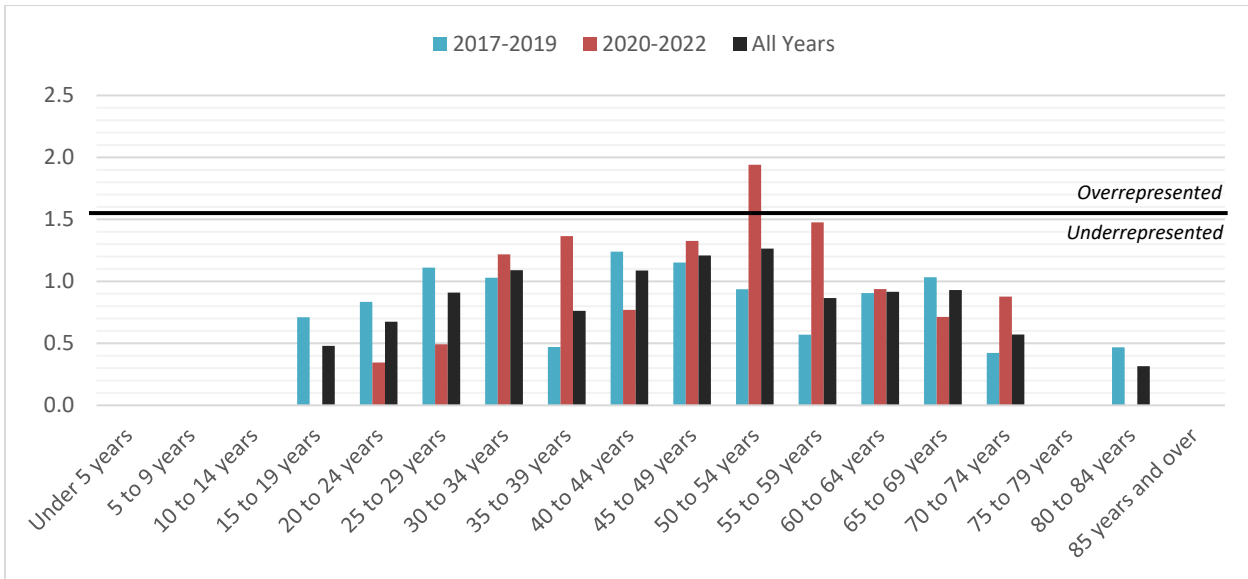
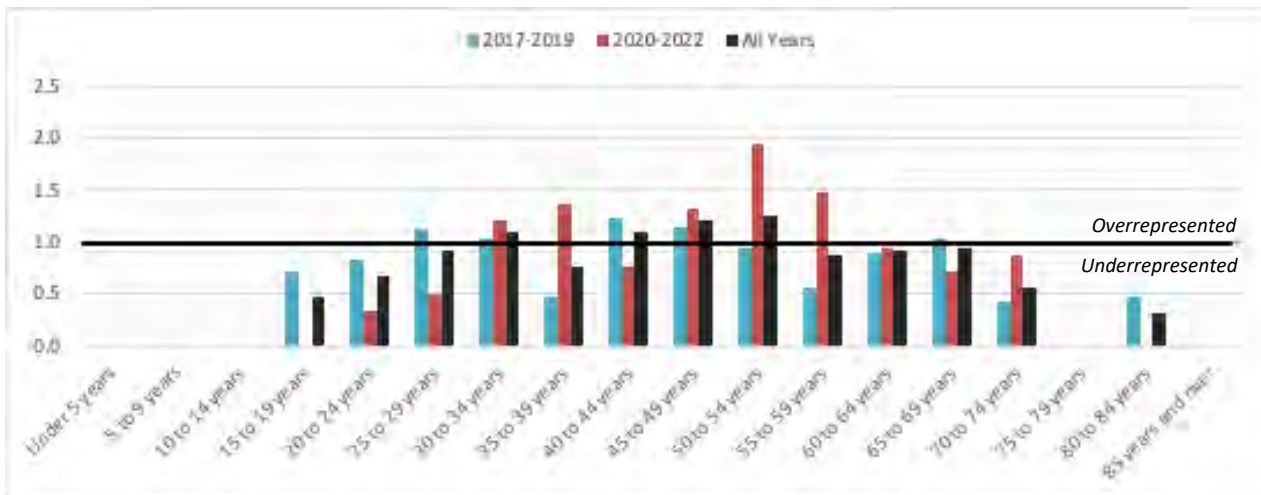


Figure 7: Driver Representation in KSI crashes by Age, 2017-2021



Bicyclist Race

Disclaimer: Party race is based on officer’s assumption or visual impression, which can be problematic and inaccurate. Additionally, there are only five racial categories (excludes “Not Stated”) within the crash data, in contrast to the US Census, which has nearly twice as many race and ethnicity categories. The victim representation and comparison made to the San Francisco population should be interpreted with caution given these reporting shortcomings.

Table 23 summarizes bicyclist race for the pre-pandemic study period. White bicyclists accounted for the largest share of bicyclists involved in a crash (57%), followed by Hispanic bicyclists (13%). When comparing the share of parties to the share of population by race, Black bicyclists were the most overrepresented (1.91) party involved in a crash, followed by white bicyclists (1.54). The Black population in San Francisco was 5%, but 9.6% of crashes involved a Black bicyclist. While these ratios do not account for the percentage of the population that rides a bike, they indicate a need to explore equity-related issues in order to understand the potential factors contributing to this disproportion. Additional research is needed to better understand the travel behaviors and mode use for each race.

Table 23: Bicyclist by Race, 2017-2019

Bicyclist Race	# Bicyclists	% of Bicyclists	# Population	% Population	Bicyclist Representation
Asian	182	10.9%	286,518	35.1%	0.31
Black	161	9.6%	40,955	5.0%	1.91
Hispanic	211	12.6%	128,030	15.7%	0.80
White	959	57.2%	302,182	37.1%	1.54
Other	131	7.8%	57,516	7.1%	1.11
Not Stated	32	1.9%	-	-	-
Total	1,676	100%	815,201	100%	-

Table 24 summarizes bicyclist race for the pre-pandemic study period for KSI crashes. The distribution and representation of KSI bicyclist by race was similar to overall crashes. Black bicyclists were the most overrepresented (1.70) followed by white bicyclists (1.62).

Table 24: KSI Bicyclist by Race, 2017-2019

Bicyclist Race	# KSI Bicyclists	% of KSI Bicyclists	# Population	% Population	KSI Bicyclist Representation
Asian	17	11.2%	286,518	35.1%	0.32
Black	13	8.6%	40,955	5.0%	1.70
Hispanic	18	11.8%	128,030	15.7%	0.75
White	91	59.9%	302,182	37.1%	1.62
Other	10	6.6%	57,516	7.1%	0.93
Not Stated	3	2.0%	-	0.0%	-
Total	152	100.0%	815,201	100.0%	-

Table 25 summarizes bicyclist race for the pandemic study period. The distribution of victims was somewhat like the pre-pandemic periods, but with some key differences. Black bicyclist representation

in crashes was even higher in the pandemic period (2.19). Hispanic bicyclists were slightly overrepresented in crashes (1.19), compared to being underrepresented during the pre-pandemic period. Lastly, white bicyclists are still overrepresented in crashes but to a lesser degree than during the pre-pandemic period.

Table 25: Bicyclist by Race, 2020-2021

Bicyclist Race	# Bicyclists	% of Bicyclists	# Population	% Population	Bicyclist Representation
Asian	102	13.1%	286,518	35.1%	0.37
Black	86	11.0%	40,955	5.0%	2.19
Hispanic	146	18.7%	128,030	15.7%	1.19
White	394	50.4%	302,182	37.1%	1.36
Other	49	6.3%	57,516	7.1%	0.89
Not Stated	4	0.5%	-	-	-
Total	781	100%	815,201	100%	-

Table 26 summarizes bicyclist race for the pandemic study period for KSI crashes. The distribution and representation of KSI bicyclist by race was similar to overall crashes during the pandemic, with the exception that Hispanic bicyclists were underrepresented. Once again, Black bicyclists were the most overrepresented (2.30), followed by white bicyclists (1.49).

Table 26: KSI Bicyclist by Race, 2020-2021

Bicyclist Race	# KSI Bicyclists	% of KSI Bicyclists	# Population	% Population	KSI Bicyclist Representation
Asian	14	17.9%	286,518	35.1%	0.51
Black	9	11.5%	40,955	5.0%	2.30
Hispanic	9	11.5%	128,030	15.7%	0.73
White	43	55.1%	302,182	37.1%	1.49
Other	3	3.8%	57,516	7.1%	0.55
Total	78	100.0%	815,201	100.0%	-

Driver Race

The home zip code is not readily available for all parties involved in the crash, therefore we cannot rule out that some people driving a motor vehicle live outside of San Francisco and their inclusion will therefore marginally affect the accuracy of the victim-to-population ratio. This affect is more likely to apply to drivers than to bicyclists in San Francisco.

Table 27 summarizes driver race for the pre-pandemic study period. White drivers accounted for the largest share of drivers involved in a crash with a bicyclist (32%), followed by Asian (15.7%) and Black (15.5%) drivers. Like bicyclist representation, Black drivers were the most overrepresented driver group by a large margin, followed by “Other” (1.78).

Table 27: Driver by Race, 2017-2019

Driver Race	# Drivers	% of Drivers	# Population	% Population	Driver Representation
Asian	223	15.7%	286,518	35.1%	0.45
Black	191	13.4%	40,955	5.0%	2.67
Hispanic	217	15.2%	128,030	15.7%	0.97
White	453	31.8%	302,182	37.1%	0.86
Other	179	12.6%	57,516	7.1%	1.78
Not Stated	160	11.2%	-	-	-
Total	1,423	100%	815,201	100%	-

Table 28 summarizes driver race for the pre-pandemic study period for KSI crashes. The distribution of drivers by race involved in a KSI crashes is similar to the distribution for overall crashes except for the larger share of drivers that did not have an assigned racial category (22%). These crashes may be related to hit-and-run crashes, which are not identified in the study crash data. Similar to overall crashes, Black drivers were disproportionately involved in KSI crashes (2.23).

Table 28: Driver by Race Involved in KSI Crashes, 2017-2019

Driver Race	# Drivers	% of Drivers	# Population	% Population	Driver Representation
Asian	20	17.2%	286,518	35.1%	0.49
Black	13	11.2%	40,955	5.0%	2.23
Hispanic	18	15.5%	128,030	15.7%	0.99
White	31	26.7%	302,182	37.1%	0.72
Other	9	7.8%	57,516	7.1%	1.10
Not Stated	25	21.6%	-	0.0%	-
Total	116	100.0%	815,201	100.0%	-

Table 29 summarizes driver race for the pandemic study period. White drivers were again the most frequently involved racial category (26.6%), followed by Hispanic (18.9%) and Asian (18.2%) drivers (in contrast to the pre-pandemic period). Like the pre-pandemic period, Black drivers were the most overrepresented (2.65) group, followed by “Other” (1.66) and Hispanic (1.21). Hispanic drivers were slightly underrepresented during the pre-pandemic study period.

Table 29: Driver by Race, 2020-2021

Driver Race	# Drivers	% of Drivers	# Population	% Population	Driver Representation
Asian	116	18.2%	286,518	35.1%	0.52
Black	85	13.3%	40,955	5.0%	2.65
Hispanic	121	18.9%	128,030	15.7%	1.21
White	170	26.6%	302,182	37.1%	0.72
Other	75	11.7%	57,516	7.1%	1.66
Not Stated	72	11.3%	-	-	-
Total	639	100%	815,201	100%	-

Table 30 summarizes driver race for the pandemic study period for KSI crashes. The distribution of drivers by race involved in KSI crashes differed from the distribution for overall crashes, in that Asian (29%), Black (18%), and white (35%) drivers accounted for a larger share for KSI crashes compared to overall crashes. This difference may be related to changes to driving behaviors or statistical noise due to KSI crashes having a smaller sample size. Like overall crashes, Black drivers were disproportionately involved in KSI crashes (3.66).

Table 30: Driver by Race Involved in KSI Crashes, 2020-2021

Driver Race	# Drivers	% of Drivers	# Population	% Population	Driver Representation
Asian	14	28.6%	286,518	35.1%	0.81
Black	9	18.4%	40,955	5.0%	3.66
Hispanic	6	12.2%	128,030	15.7%	0.78
White	17	34.7%	302,182	37.1%	0.94
Other	3	6.1%	57,516	7.1%	0.87
Total	49	100.0%	815,201	100.0%	

Bicyclist and Driver Race

Table 31 and Table 32 summarize the number of parties involved in each crash for both the bicyclist and driver involved (only includes the first two parties involved – numbers will not match the previous race tables). Values greater than one indicate that particular bicyclist race was disproportionately involved in crashes with drivers of the corresponding driver race. These values are calculated by dividing the bicyclist percentage by the driver race percentage and are not per capita based, therefore these values cannot be compared to the other proportionality measures discussed in this analysis.

White bicyclists were not particularly overrepresented in crashes with a driver of other races during both study periods. Hispanic bicyclists were overrepresented in pre-pandemic crashes with white (1.13) and Asian (1.10) drivers, and were overrepresented in crashes during the pandemic study period with Hispanic (1.23) drivers. Asian bicyclists were slightly to moderately disproportionately involved in crashes during the pre-pandemic crashes with white (1.10), Hispanic (1.08), Asian (1.06), and other (1.12) drivers. Asian bicyclists were particularly overrepresented in pandemic crashes with Asian (1.44) and other (1.24) drivers. Black bicyclists were most disproportionately involved in crashes with

Hispanic (1.24) and Black (1.51) drivers during the pre-pandemic period. These patterns may reflect historic racial segregation and mobility in different neighborhoods throughout San Francisco. Additional research is needed to better understand the travel behaviors and mode preferences for each race.

Table 31: Primary Bicyclist and Primary Driver Race Representation, 2017-2019

Bicyclist Race	Driver Race						# Bicyclists
	White	Hispanic	Asian	Black	Other	Not Stated	
White	1.04	0.97	1.00	0.99	0.93	1.02	774
Hispanic	1.13	0.97	1.10	0.77	1.01	0.79	181
Asian	1.10	1.08	1.06	0.77	1.12	0.68	133
Black	0.76	1.24	1.03	1.51	0.95	0.76	131
Other	0.75	0.85	0.90	1.16	1.62	1.18	107
Not	0.67	1.13	0.28	0.64	0.00	4.30	23
# Drivers	435	207	210	184	163	150	

Table 32: Primary Bicyclist and Primary Driver Race Representation, 2020-2021

Bicyclist Race	Driver Race						# Bicyclists
	White	Hispanic	Asian	Black	Other	Not Stated	
White	1.02	0.96	0.96	1.07	0.84	1.17	314
Hispanic	0.92	1.23	0.90	0.90	1.05	1.05	122
Asian	0.98	1.06	1.44	0.77	1.24	0.24	76
Black	1.02	0.81	0.99	1.00	0.91	1.39	66
Other	1.15	0.77	0.91	1.05	1.63	0.44	42
Not	0.00	1.79	0.00	2.44	2.84	0.00	3
# Drivers	167	116	114	85	73	68	

Bicyclist Gender

Disclaimer: Party gender is based on officer’s assumption or visual impression, which can be problematic and inaccurate. The only categorical values for gender in the crash report form include “male”, “female”, and “Not Stated” and do not include other personal gender identities. The victim representation and comparison made to the San Francisco population should be interpreted with caution given these reporting shortcomings.

Table 33 and Table 34 summarize bicyclists by gender for all crashes and KSI crashes respectively. Male bicyclists accounted for the majority of bicyclists involved in crashes and KSI crashes during both study periods. This may be a reflection of male bicyclists feeling more confident or comfortable riding a bicycle in San Francisco. This may also be a reflection of male bicyclists not experiencing perceived risk (crash or personal safety) that female or non-male-identifying bicyclists experience¹⁵. Additional

¹⁵ https://safetrec.berkeley.edu/sites/default/files/whydontwomencycle_9.3_v2.pdf

research to better understand travel preferences and bicycling frequency by gender can help contextualize this finding.

Table 33: Number of Bicyclists Involved in a crash, by gender and study period, 2017-2022

Bicyclist Gender	% Parties			Population		Representation		
	2017-2019	2020-2022	All Years	# Population	% Population	2017-2019	2020-2022	All Years
Male	77.9%	78.6%	78.1%	443,653	51.2%	1.52	1.53	1.52
Female	21.4%	21.3%	21.4%	422,280	48.8%	0.44	0.44	0.44
Not Stated	0.7%	0.1%	0.5%	-	-	-	-	-
Total	100.0%	100.0%	100.0%	865,933	100.0%	-	-	-

Representation values greater than 1 indicates that age cohort is overrepresented in crashes. Values less than 1 indicate underrepresentation.

Table 34: Number of fatally or severely injured Bicyclists Involved in a crash, by gender and study period, 2017-2022

Bicyclist Gender	% Parties			Population		Representation		
	2017-2019	2020-2022	All Years	# Population	% Population	2017-2019	2020-2022	All Years
Male	75.0%	80.8%	77.0%	443,653	51.2%	1.46	1.58	1.50
Female	23.7%	19.2%	22.2%	422,280	48.8%	0.49	0.39	0.45
Not Stated	1.3%	0.0%	0.9%	-	-	-	-	-
Total	100.0%	100.0%	100.0%	865,933	100.0%	-	-	-

Representation values greater than 1 indicates that age cohort is overrepresented in crashes. Values less than 1 indicate underrepresentation.

Conclusion and Next Steps

This document summarized the who, when, and why questions related to bicycle crashes within San Francisco between 2017-2021. The findings of this analysis will be shared with the public during Community Engagement Phase 2 (April – June 2023). This is the final draft of the Step I analysis. The follow-up analysis (Step II) will begin and will use systemic safety principles to analyze where crashes occurred and what factors contributed to those crashes.

Appendix A

Generalized Violation Types

The table below represents the how violation types summarized in Table 9 and Table 10 have been grouped into similar violation types.

Table 35: California Vehicle Code Violation Types

Violation Code	Definition	Generalized Category
21657	The authorities in charge of any highway may designate any highway, roadway, part of a roadway, or specific lanes upon which vehicular traffic shall proceed in one direction at all or such times as shall be indicated by official traffic control devices. When a roadway has been so designated, a vehicle shall be driven only in the direction designated at all or such times as shall be indicated by traffic control devices.	Wrong way travel
21651	Bicyclists riding in the roadway or on a shoulder must ride in the same direction of traffic	Wrong way riding
21663	Must not operate a vehicle on a sidewalk except to enter or exit an adjacent properly	Vehicle on sidewalk
24002	Vehicles, loads, or other roadway equipment must not present a safety hazard and be lawfully equipped	Vehicle load ill-equipped
21209	Must not drive a vehicle in the bicycle lane	Vehicle in bike lane
22106	Must not stop, park, or reverse on a highway unless conditions are safe to do so	Unsafe stop
21712	Must not ride in a portion of a vehicle that is not intended for passengers (e.g., trunk)	Unsafe passenger position
21703	Must allow adequate space between vehicles traveling the same direction on a roadway	Unsafe pass
23336	It is unlawful to violate any rules or regulations adopted under Section 23334, notice of which has been given either by a sign on a vehicular crossing or by publication as provided in Section 23335.	Unknown
22515	Must set the brakes before leaving a vehicle unattended	Unattended vehicle
21960	The Department of Transportation and local authorities, by order, ordinance, or resolution, with respect to freeways, expressways, or designated portions thereof under their respective jurisdictions, to which vehicle access is completely or partially controlled, may prohibit or restrict the use of the freeways, expressways, or any portion thereof by pedestrians, bicycles or other nonmotorized traffic or by any person operating a motor-driven cycle, motorized bicycle, motorized scooter, or electrically motorized board.	Travel prohibited
21208	Bicyclists traveling at less than the normal speed of the roadway must travel in the bicycle lane if one is present, except when it is necessary to leave the lane to turn, overtake, or avoid a hazardous condition	Too slow condition
22400	Must not drive slower than a normal speed except when dangerous conditions are present, or stop unexpectedly on a roadway	Too slow condition
22350	Must drive at a reasonable speed	Too fast condition
21760	Must allow three feet of space between the vehicle and bicyclist when overtaking a bicyclist	Three feet safety
21461	Must obey all regulatory signals and signs (applies to pedestrians and drivers)	Disregard signal or sign
21457	Must abide by rules for flashing yellow and red signals	Disregard signal or sign
21229	If a class II bikeway is present, operators of motorized scooters shall ride in the bicycle lane, except when turning, overtaking, or avoiding a hazardous condition	Scooter needs to travel in bike lane
23103	Reckless driving occurs when a driver operates a vehicle with willful disregard for the safety of people or property	Reckless driving
21750	Must pass on the left if overtaking another vehicle	Overtaking

Violation Code	Definition	Generalized Category
21755	Must only pass another vehicle on the right if able to do so safely	Overtaking
21951	Must not overtake another vehicle that has stopped to yield to a pedestrian	Overtaking
21756	The driver of a vehicle overtaking any interurban electric or streetcar stopped or about to stop for the purpose of receiving or discharging any passenger shall stop the vehicle to the rear of the nearest running board or door of such car and thereupon remain standing until all passengers have boarded the car or upon alighting have reached a place of safety	Overtaking
12500	A person may not drive a motor vehicle upon a highway, unless the person then holds a valid driver license issued under this code, except those persons who are expressly exempted under this code.	No valid license
21235	Motorize scooter violation	Motorized Scooter Violation
21955	Pedestrians must cross in the middle of the block only where there is a crosswalk	Illegal mid-block crossing
21211	Must not loiter in a class I bikeway	Loiter in bike lane
21650	Must drive on right half of the highway except when passing another vehicle, making a legal left turn, or when the right half of the roadway is closed	Keep right
22110	The signals required by this chapter shall be given by signal lamp, unless a vehicle is not required to be and is not equipped with turn signals. Drivers of vehicles not required to be and not equipped with turn signals shall give a hand and arm signal when required by this chapter.	Improper signal
22105	Must not make a U-turn in areas where the driver does not have an unobstructed view for 200 feet in both directions	Improper U-turn
22102	Must not make a U-turn in a business district except at intersections or locations where U-Turns are permitted	Improper U-turn
22103	Must not make a U-turn in a residential district when any other vehicle is approaching in either direction within 200 feet, except at an intersection when the approaching vehicle is controlled by a traffic device	Improper U-turn
22107	Must turn in a safe place and use a turn signal	Improper turn
22100	Must make right- and left-hand turns as close as practicable to the right- and left-hand edge of roadway, respectively	Improper turn
22101	Must obey signals and signs indicating turning restrictions, such as no-turn-on-red signs or signals	Improper turn
21717	Whenever it is necessary for the driver of a motor vehicle to cross a bicycle lane that is adjacent to his lane of travel to make a turn, the driver shall drive the motor vehicle into the bicycle lane prior to making the turn and shall make the turn pursuant to Section 22100.	Improper turn
22450	Must stop at stop sign before intersection, or stop line, or crosswalk	Improper stop
22109	No person shall stop or suddenly decrease the speed of a vehicle on a highway without first giving an appropriate signal in the manner provided in this chapter to the driver of any vehicle immediately to the rear when there is opportunity to give the signal.	Improper stop
22500	A person shall not stop, park, or leave standing any vehicle whether attended or unattended, except when necessary to avoid conflict with other traffic or in compliance with the directions of a peace officer or official traffic control device	Improper parking
21658	Must drive within a single lane if roadway has been divided into two or more lanes, unless directed otherwise	Improper lane
23152	Must not drive while under the influence of alcohol	Impairment
23153	Must not drive while under the influence of alcohol and concurrently break the law	Impairment
21206	This chapter does not prevent local authorities, by ordinance, from regulating the registration of bicycles and the parking and operation of bicycles on pedestrian or bicycle facilities, provided such regulation is not in conflict with the provisions of this code	Illegal bicycle operation

Violation Code	Definition	Generalized Category
20001	Must stop if vehicle is involved in an accident resulting in an injury to a person, other than oneself	Hit and run
20002	The driver of any vehicle involved in an accident resulting only in damage to any property, including vehicles, shall immediately stop the vehicle at the nearest location that will not impede traffic or otherwise jeopardize the safety of other motorists.	Hit and run
21950	Must yield to pedestrian crossing the roadway at an intersection	Failure to yield to pedestrian
21952	Must yield to pedestrian before driving over or on any sidewalk	Failure to yield to pedestrian
21801	Must yield to oncoming traffic before turning left or making a U-Turn	Failure to yield – driver left turn
21804	Must yield to traffic when entering or crossing a highway	Failure to yield
21954	Pedestrians must yield right-of-way to vehicles except when at a marked crosswalk or an unmarked crosswalk at an intersection	Failure to yield
21800	Must yield to drivers already in an intersection when approaching an intersection	Failure to yield
21456	Pedestrians must obey pedestrian signal heads but must yield to vehicles legally in the intersection at the time that the signal is first shown	Failure to yield
21803	Drivers must obey yield signs at intersections controlled by a yield right-of-way sign	Failure to yield intersection
21451	A driver facing a circular green signal shall proceed straight through or turn right or left or make a U-turn unless a sign prohibits a U-turn. Any driver, including one turning, shall yield the right-of-way to other traffic and to pedestrians lawfully within the intersection or an adjacent crosswalk.	Failure to yield intersection
21707	No motor vehicle, except an authorized emergency vehicle or a vehicle of a duly authorized member of a fire or police department, shall be operated within the block wherein an emergency situation responded to by any fire department vehicle exists, except that in the event the nearest intersection to the emergency is more than 300 feet therefrom, this section shall prohibit operation of vehicles only within 300 feet of the emergency, unless directed to do so by a member of the fire department or police department, sheriff, deputy sheriff, or member of the California Highway Patrol.	Failure to yield emergency
22108	Any signal of intention to turn right or left shall be given continuously during the last 100 feet traveled by the vehicle before turning.	Failure to signal turn
21802	Must stop at stop sign and yield to drivers that do not have a stop sign	Fail to stop
21807	Drivers of emergency vehicles must drive with regard for the safety of all people and property	Emergency vehicle unsafe
21752	Must not drive on the left side of a roadway when approaching a grade or curve, or when the drivers vision is obstructed within 100 feet of a railroad crossing, intersection, bridge, or tunnel	Driving left of centerline
21203	Must not attach oneself to a streetcar or vehicle on the roadway if traveling by bicycle, motorcycle, skates, sled, or motorized bicycle	Drag tow
22517	Must not open vehicle door on the same side as moving traffic unless it will not interfere with moving traffic	Dooring
21460	Must not cross double parallel solid yellow or white lines	Do not cross solid line
23123	A person shall not drive a motor vehicle while using a wireless telephone unless that telephone is specifically designed and configured to allow hands-free listening and talking, and is used in that manner while driving.	Distracted phone
27400	A person operating a motor vehicle or bicycle may not wear a headset covering, earplugs in, or earphones covering, resting on, or inserted in, both ears.	Distracted headphones
21453	Must stop at red light	Disregard signal

Violation Code	Definition	Generalized Category
21202	Bicyclists must ride as close as practicable to the right-hand edge of the road, except when passing, preparing for a left-turn, avoiding roadway hazards, or preparing to turn right	Close practicable
21662	Must maintain control of vehicles on all roads and drive on the right side of the roadway if no center line is present	Close practicable
21751	Must not drive left of center on a two-lane roadway, except to pass	Close practicable
21956	Pedestrians must walk close to the right- or left-hand edge of the roadway	Close practicable
21200	Bicyclists must abide by the same rules as vehicle drivers	Bike-Vehicle violation
21201	Must not ride a bicycle on a roadway unless it is equipped with brakes, lights, and reflectors	Bike illegal equipment

Appendix B

Pre-Crash Movement (Full Tables)

The tables below expand upon Table 5 and Table 6 and display all crash types, not just the top 10 crash types.

Table 36: Bicycle Crashes by Pre-Crash Movements, 2017-2019

Bike + Motorist or Pedestrian Movements	# Crashes	% crashes	Crash Rate/ Year	# KSI	% KSI	KSI Crash Rate/ Year	% Crashes Resulting in KSI
Proceeding Straight, Proceeding Straight	310	18.6%	103.3	28	17.7%	9.3	9.0%
Proceeding Straight, Making Left Turn	215	12.9%	71.7	17	10.8%	5.7	7.9%
Proceeding Straight, Making Right Turn	202	12.1%	67.3	12	7.6%	4.0	5.9%
solo bike Proceeding Straight	139	8.3%	46.3	31	19.6%	10.3	22.3%
Proceeding Straight, Stopped	113	6.8%	37.7	13	8.2%	4.3	11.5%
Proceeding Straight, Parked	48	2.9%	16.0	5	3.2%	1.7	10.4%
Making Left Turn, Proceeding Straight	46	2.8%	15.3	4	2.5%	1.3	8.7%
Proceeding Straight, Making U Turn	40	2.4%	13.3	1	0.6%	0.3	2.5%
Proceeding Straight, Entering Traffic	33	2.0%	11.0	3	1.9%	1.0	9.1%
Proceeding Straight, Changing Lanes	33	2.0%	11.0	2	1.3%	0.7	6.1%
Proceeding Straight, Parking Maneuver	31	1.9%	10.3	3	1.9%	1.0	9.7%
Proceeding Straight, Crossing in Crosswalk at Intersection	31	1.9%	10.3	2	1.3%	0.7	6.5%
Making Right Turn, Proceeding Straight	23	1.4%	7.7	1	0.6%	0.3	4.3%
Proceeding Straight, Crossing Not in Crosswalk	23	1.4%	7.7	2	1.3%	0.7	8.7%
Stopped, Proceeding Straight	22	1.3%	7.3	0	0.0%	0.0	0.0%
Not Stated, Not Stated	17	1.0%	5.7	1	0.6%	0.3	5.9%
Proceeding Straight, Slowing/Stopping	16	1.0%	5.3	2	1.3%	0.7	12.5%
Proceeding Straight, Passing Other Vehicle	14	0.8%	4.7	0	0.0%	0.0	0.0%
Changing Lanes, Proceeding Straight	13	0.8%	4.3	0	0.0%	0.0	0.0%
Proceeding Straight, Backing	12	0.7%	4.0	0	0.0%	0.0	0.0%
Proceeding Straight, Other Unsafe Turning	12	0.7%	4.0	1	0.6%	0.3	8.3%
Proceeding Straight, Not Stated	12	0.7%	4.0	4	2.5%	1.3	33.3%
Proceeding Straight, nan	12	0.7%	4.0	0	0.0%	0.0	0.0%
solo bike Changing Lanes	11	0.7%	3.7	3	1.9%	1.0	27.3%
solo bike Making Left Turn	10	0.6%	3.3	1	0.6%	0.3	10.0%
Proceeding Straight, Not in Road	10	0.6%	3.3	0	0.0%	0.0	0.0%
Entering Traffic, Proceeding Straight	10	0.6%	3.3	2	1.3%	0.7	20.0%
Stopped, Stopped	9	0.5%	3.0	0	0.0%	0.0	0.0%
Proceeding Straight, In Road, Including Shoulder	9	0.5%	3.0	2	1.3%	0.7	22.2%
Passing Other Vehicle, Proceeding Straight	8	0.5%	2.7	0	0.0%	0.0	0.0%
Passing Other Vehicle, Stopped	7	0.4%	2.3	0	0.0%	0.0	0.0%
Proceeding Straight, Other	6	0.4%	2.0	2	1.3%	0.7	33.3%
solo bike Making Right Turn	6	0.4%	2.0	1	0.6%	0.3	16.7%
Traveling Wrong Way, Proceeding Straight	6	0.4%	2.0	0	0.0%	0.0	0.0%
Making Right Turn, Stopped	6	0.4%	2.0	0	0.0%	0.0	0.0%
Other, Proceeding Straight	5	0.3%	1.7	0	0.0%	0.0	0.0%
Making Left Turn, Making Left Turn	5	0.3%	1.7	2	1.3%	0.7	40.0%
Stopped, Making Right Turn	5	0.3%	1.7	0	0.0%	0.0	0.0%
Proceeding Straight, Merging	5	0.3%	1.7	0	0.0%	0.0	0.0%
Making Right Turn, Making Left Turn	5	0.3%	1.7	0	0.0%	0.0	0.0%
solo bike Other	4	0.2%	1.3	1	0.6%	0.3	25.0%
Traveling Wrong Way, Making Left Turn	4	0.2%	1.3	0	0.0%	0.0	0.0%
solo bike Passing Other Vehicle	4	0.2%	1.3	1	0.6%	0.3	25.0%
Traveling Wrong Way, Making Right Turn	4	0.2%	1.3	0	0.0%	0.0	0.0%
Other Unsafe Turning, Proceeding Straight	4	0.2%	1.3	0	0.0%	0.0	0.0%
solo bike Stopped	3	0.2%	1.0	0	0.0%	0.0	0.0%
Proceeding Straight, Ran Off Road	3	0.2%	1.0	0	0.0%	0.0	0.0%

Bike + Motorist or Pedestrian Movements	# Crashes	% crashes	Crash Rate/ Year	# KSI	% KSI	KSI Crash Rate/ Year	% Crashes Resulting in KSI
Changing Lanes, Stopped	3	0.2%	1.0	0	0.0%	0.0	0.0%
Passing Other Vehicle, Making Right Turn	3	0.2%	1.0	1	0.6%	0.3	33.3%
solo bike Slowing/Stopping	3	0.2%	1.0	1	0.6%	0.3	33.3%
Proceeding Straight, No Pedestrian Involved	3	0.2%	1.0	1	0.6%	0.3	33.3%
Making Left Turn, Parked	3	0.2%	1.0	0	0.0%	0.0	0.0%
Not Stated, Proceeding Straight	3	0.2%	1.0	1	0.6%	0.3	33.3%
Proceeding Straight, Crossing in Crosswalk Not at Intersection	3	0.2%	1.0	0	0.0%	0.0	0.0%
Making U Turn, Proceeding Straight	3	0.2%	1.0	0	0.0%	0.0	0.0%
Making Right Turn, Making Right Turn	3	0.2%	1.0	0	0.0%	0.0	0.0%
Not Stated, Making Left Turn	3	0.2%	1.0	0	0.0%	0.0	0.0%
Merging, Proceeding Straight	2	0.1%	0.7	0	0.0%	0.0	0.0%
Making Right Turn, Crossing in Crosswalk at Intersection	2	0.1%	0.7	0	0.0%	0.0	0.0%
Other, Other	2	0.1%	0.7	0	0.0%	0.0	0.0%
Entering Traffic, Making Right Turn	2	0.1%	0.7	0	0.0%	0.0	0.0%
Stopped, Making Left Turn	2	0.1%	0.7	0	0.0%	0.0	0.0%
Entering Traffic, nan	2	0.1%	0.7	0	0.0%	0.0	0.0%
Changing Lanes, Changing Lanes	2	0.1%	0.7	0	0.0%	0.0	0.0%
Not Stated, Stopped	2	0.1%	0.7	0	0.0%	0.0	0.0%
Making Left Turn, Stopped	2	0.1%	0.7	1	0.6%	0.3	50.0%
Making Left Turn, Crossing in Crosswalk at Intersection	2	0.1%	0.7	0	0.0%	0.0	0.0%
solo bike Ran Off Road	2	0.1%	0.7	1	0.6%	0.3	50.0%
Making Left Turn, nan	2	0.1%	0.7	0	0.0%	0.0	0.0%
Stopped, Passing Other Vehicle	2	0.1%	0.7	0	0.0%	0.0	0.0%
Not Stated, nan	2	0.1%	0.7	0	0.0%	0.0	0.0%
Other, Making Right Turn	2	0.1%	0.7	1	0.6%	0.3	50.0%
Proceeding Straight, Traveling Wrong Way	2	0.1%	0.7	0	0.0%	0.0	0.0%
Making Left Turn, Making Right Turn	1	0.1%	0.3	0	0.0%	0.0	0.0%
Passing Other Vehicle, Not Stated	1	0.1%	0.3	0	0.0%	0.0	0.0%
Passing Other Vehicle, Making Left Turn	1	0.1%	0.3	0	0.0%	0.0	0.0%
Making Left Turn, Other Unsafe Turning	1	0.1%	0.3	0	0.0%	0.0	0.0%
Stopped, In Road, Including Shoulder	1	0.1%	0.3	0	0.0%	0.0	0.0%
Proceeding Straight, Crossed Into Opposing Lane	1	0.1%	0.3	0	0.0%	0.0	0.0%
Traveling Wrong Way, Crossing Not in Crosswalk	1	0.1%	0.3	0	0.0%	0.0	0.0%
Other, Passing Other Vehicle	1	0.1%	0.3	0	0.0%	0.0	0.0%
Merging, Merging	1	0.1%	0.3	0	0.0%	0.0	0.0%
Entering Traffic, Backing	1	0.1%	0.3	0	0.0%	0.0	0.0%
solo bike Traveling Wrong Way	1	0.1%	0.3	0	0.0%	0.0	0.0%
Making Right Turn, nan	1	0.1%	0.3	0	0.0%	0.0	0.0%
Passing Other Vehicle, Parking Maneuver	1	0.1%	0.3	0	0.0%	0.0	0.0%
Other, Stopped	1	0.1%	0.3	0	0.0%	0.0	0.0%
Stopped, Slowing/Stopping	1	0.1%	0.3	0	0.0%	0.0	0.0%
Making Right Turn, Parked	1	0.1%	0.3	1	0.6%	0.3	100.0%
Passing Other Vehicle, Entering Traffic	1	0.1%	0.3	0	0.0%	0.0	0.0%
Parked, Proceeding Straight	1	0.1%	0.3	0	0.0%	0.0	0.0%
Not Stated, Making U Turn	1	0.1%	0.3	0	0.0%	0.0	0.0%
Entering Traffic, Crossing Not in Crosswalk	1	0.1%	0.3	0	0.0%	0.0	0.0%
Other Unsafe Turning, Making Right Turn	1	0.1%	0.3	0	0.0%	0.0	0.0%
Passing Other Vehicle, Slowing/Stopping	1	0.1%	0.3	0	0.0%	0.0	0.0%
Passing Other Vehicle, Parked	1	0.1%	0.3	0	0.0%	0.0	0.0%
Entering Traffic, Making Left Turn	1	0.1%	0.3	1	0.6%	0.3	100.0%
Stopped, Crossing in Crosswalk at Intersection	1	0.1%	0.3	0	0.0%	0.0	0.0%
Slowing/Stopping, Backing	1	0.1%	0.3	0	0.0%	0.0	0.0%
Other, Not in Road	1	0.1%	0.3	0	0.0%	0.0	0.0%
Slowing/Stopping, Parking Maneuver	1	0.1%	0.3	0	0.0%	0.0	0.0%
Traveling Wrong Way, Stopped	1	0.1%	0.3	0	0.0%	0.0	0.0%

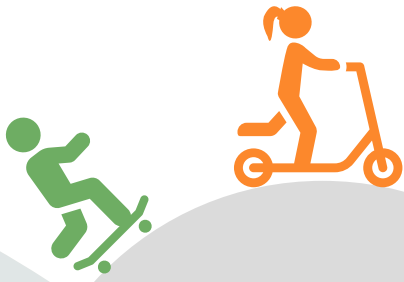
Bike + Motorist or Pedestrian Movements	# Crashes	% crashes	Crash Rate/ Year	# KSI	% KSI	KSI Crash Rate/ Year	% Crashes Resulting in KSI
Slowing/Stopping, Proceeding Straight	1	0.1%	0.3	0	0.0%	0.0	0.0%
Stopped, Ran Off Road	1	0.1%	0.3	0	0.0%	0.0	0.0%
Slowing/Stopping, Traveling Wrong Way	1	0.1%	0.3	0	0.0%	0.0	0.0%
Not Stated, Crossing in Crosswalk at Intersection	1	0.1%	0.3	1	0.6%	0.3	100.0%
Parking Maneuver, Proceeding Straight	1	0.1%	0.3	0	0.0%	0.0	0.0%
Changing Lanes, Entering Traffic	1	0.1%	0.3	0	0.0%	0.0	0.0%
Passing Other Vehicle, Changing Lanes	1	0.1%	0.3	0	0.0%	0.0	0.0%
Backing, In Road, Including Shoulder	1	0.1%	0.3	0	0.0%	0.0	0.0%
Ran Off Road, Merging	1	0.1%	0.3	0	0.0%	0.0	0.0%
Ran Off Road, Proceeding Straight	1	0.1%	0.3	1	0.6%	0.3	100.0%
Making Left Turn, Passing Other Vehicle	1	0.1%	0.3	0	0.0%	0.0	0.0%
Total	1668	100.0%	556.0	158	100.0%	52.7	9.5%

Table 37: Bicycle Crashes by Pre-Crash Movements, 2020-2021

Bike + Motorist or Pedestrian Movements	# Crashes	% crashes	Crash Rate/ Year	# KSI	% KSI	KSI Crash Rate/ Year	% Crashes Resulting in KSI
Proceeding Straight, Proceeding Straight	185	24.2%	92.5	21	26.9%	10.5	11.4%
Proceeding Straight, Making Left Turn	105	13.7%	52.5	7	9.0%	3.5	6.7%
Proceeding Straight, Making Right Turn	81	10.6%	40.5	3	3.8%	1.5	3.7%
solo bike Proceeding Straight	78	10.2%	39.0	16	20.5%	8.0	20.5%
Proceeding Straight, Stopped	34	4.5%	17.0	3	3.8%	1.5	8.8%
Making Left Turn, Proceeding Straight	24	3.1%	12.0	2	2.6%	1.0	8.3%
Proceeding Straight, Making U Turn	18	2.4%	9.0	1	1.3%	0.5	5.6%
Proceeding Straight, Parked	14	1.8%	7.0	1	1.3%	0.5	7.1%
Proceeding Straight, Entering Traffic	12	1.6%	6.0	1	1.3%	0.5	8.3%
Proceeding Straight, Changing Lanes	11	1.4%	5.5	0	0.0%	0.0	0.0%
Changing Lanes, Proceeding Straight	11	1.4%	5.5	2	2.6%	1.0	18.2%
Making Right Turn, Proceeding Straight	10	1.3%	5.0	2	2.6%	1.0	20.0%
Entering Traffic, Proceeding Straight	9	1.2%	4.5	3	3.8%	1.5	33.3%
Not Stated, Not Stated	9	1.2%	4.5	1	1.3%	0.5	11.1%
Traveling Wrong Way, Proceeding Straight	8	1.0%	4.0	1	1.3%	0.5	12.5%
Proceeding Straight, In Road, Including Shoulder	8	1.0%	4.0	2	2.6%	1.0	25.0%
Proceeding Straight, Other	8	1.0%	4.0	1	1.3%	0.5	12.5%
Proceeding Straight, Crossing in Crosswalk at Intersection	7	0.9%	3.5	0	0.0%	0.0	0.0%
Proceeding Straight, Parking Maneuver	7	0.9%	3.5	1	1.3%	0.5	14.3%
Proceeding Straight, Not in Road	7	0.9%	3.5	0	0.0%	0.0	0.0%
Proceeding Straight, Crossing Not in Crosswalk	7	0.9%	3.5	0	0.0%	0.0	0.0%
solo bike Slowing/Stopping	6	0.8%	3.0	2	2.6%	1.0	33.3%
Stopped, Proceeding Straight	6	0.8%	3.0	0	0.0%	0.0	0.0%
Other, Proceeding Straight	6	0.8%	3.0	0	0.0%	0.0	0.0%
Stopped, Stopped	5	0.7%	2.5	0	0.0%	0.0	0.0%
solo bike Other	5	0.7%	2.5	1	1.3%	0.5	20.0%
solo bike Making Left Turn	4	0.5%	2.0	1	1.3%	0.5	25.0%
Proceeding Straight, Slowing/Stopping	4	0.5%	2.0	0	0.0%	0.0	0.0%
Making Left Turn, Making Right Turn	4	0.5%	2.0	0	0.0%	0.0	0.0%
Making Left Turn, Making Left Turn	3	0.4%	1.5	0	0.0%	0.0	0.0%
Traveling Wrong Way, Making Right Turn	3	0.4%	1.5	0	0.0%	0.0	0.0%
Other, Making Left Turn	3	0.4%	1.5	0	0.0%	0.0	0.0%
solo bike Changing Lanes	3	0.4%	1.5	1	1.3%	0.5	33.3%
Not Stated, Proceeding Straight	3	0.4%	1.5	0	0.0%	0.0	0.0%
Stopped, Making Right Turn	3	0.4%	1.5	0	0.0%	0.0	0.0%

Bike + Motorist or Pedestrian Movements	# Crashes	% crashes	Crash Rate/ Year	# KSI	% KSI	KSI Crash Rate/ Year	% Crashes Resulting in KSI
Changing Lanes, Changing Lanes	3	0.4%	1.5	0	0.0%	0.0	0.0%
solo bike Making Right Turn	2	0.3%	1.0	0	0.0%	0.0	0.0%
Changing Lanes, Stopped	2	0.3%	1.0	0	0.0%	0.0	0.0%
Making Right Turn, Making Left Turn	2	0.3%	1.0	0	0.0%	0.0	0.0%
Proceeding Straight, Backing	2	0.3%	1.0	0	0.0%	0.0	0.0%
Proceeding Straight, Traveling Wrong Way	2	0.3%	1.0	0	0.0%	0.0	0.0%
Making Left Turn, Other	2	0.3%	1.0	0	0.0%	0.0	0.0%
Making Left Turn, Stopped	2	0.3%	1.0	0	0.0%	0.0	0.0%
Proceeding Straight, Not Stated	2	0.3%	1.0	0	0.0%	0.0	0.0%
Slowing/Stopping, Other	1	0.1%	0.5	1	1.3%	0.5	100.0%
Crossed Into Opposing Lane, Proceeding Straight	1	0.1%	0.5	0	0.0%	0.0	0.0%
Other, Backing	1	0.1%	0.5	0	0.0%	0.0	0.0%
Making Right Turn, Making U Turn	1	0.1%	0.5	0	0.0%	0.0	0.0%
Making Left Turn, Crossing in Crosswalk at Intersection	1	0.1%	0.5	0	0.0%	0.0	0.0%
Traveling Wrong Way, Stopped	1	0.1%	0.5	0	0.0%	0.0	0.0%
Not Stated, Stopped	1	0.1%	0.5	0	0.0%	0.0	0.0%
Making U Turn, Proceeding Straight	1	0.1%	0.5	0	0.0%	0.0	0.0%
solo bike Not Stated	1	0.1%	0.5	0	0.0%	0.0	0.0%
Proceeding Straight, Merging	1	0.1%	0.5	0	0.0%	0.0	0.0%
Other, Stopped	1	0.1%	0.5	1	1.3%	0.5	100.0%
Proceeding Straight, nan	1	0.1%	0.5	1	1.3%	0.5	100.0%
Entering Traffic, Not Stated	1	0.1%	0.5	0	0.0%	0.0	0.0%
Merging, Other	1	0.1%	0.5	0	0.0%	0.0	0.0%
Slowing/Stopping, Stopped	1	0.1%	0.5	0	0.0%	0.0	0.0%
Other, Making Right Turn	1	0.1%	0.5	0	0.0%	0.0	0.0%
solo bike Entering Traffic	1	0.1%	0.5	0	0.0%	0.0	0.0%
Stopped, Backing	1	0.1%	0.5	0	0.0%	0.0	0.0%
Parked, Proceeding Straight	1	0.1%	0.5	0	0.0%	0.0	0.0%
Other, Not in Road	1	0.1%	0.5	0	0.0%	0.0	0.0%
Other, Entering Traffic	1	0.1%	0.5	0	0.0%	0.0	0.0%
Traveling Wrong Way, Entering Traffic	1	0.1%	0.5	0	0.0%	0.0	0.0%
Making Left Turn, Not in Road	1	0.1%	0.5	0	0.0%	0.0	0.0%
Other, Parking Maneuver	1	0.1%	0.5	0	0.0%	0.0	0.0%
Other, nan	1	0.1%	0.5	1	1.3%	0.5	100.0%
Merging, Proceeding Straight	1	0.1%	0.5	0	0.0%	0.0	0.0%
Other, Other	1	0.1%	0.5	1	1.3%	0.5	100.0%
Not Stated, Changing Lanes	1	0.1%	0.5	0	0.0%	0.0	0.0%
Traveling Wrong Way, Making Left Turn	1	0.1%	0.5	0	0.0%	0.0	0.0%
Not Stated, Making Left Turn	1	0.1%	0.5	0	0.0%	0.0	0.0%
Entering Traffic, Making Right Turn	1	0.1%	0.5	0	0.0%	0.0	0.0%
Not Stated, Making Right Turn	1	0.1%	0.5	0	0.0%	0.0	0.0%
Making Left Turn, Backing	1	0.1%	0.5	0	0.0%	0.0	0.0%
Parked, Stopped	1	0.1%	0.5	0	0.0%	0.0	0.0%
Total	764	100.0%	382.0	78	100.0%	39.0	10.2%

Appendix I





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EXISTING CONDITIONS SUMMARY

Task Summary

Purpose of the Existing Conditions Task

In Task 1, the project team (SFMTA and Toole Design) worked together to develop a complete picture of current conditions for bicycling in San Francisco. This picture of existing conditions developed in Task 1 will serve as the foundation to identify performance of the current bicycle network and the efficacy of existing programs and policies, which will inform the recommendations developed for the Active Communities Plan.

Description of Task Elements

Task 1 efforts were comprised of the following elements:

- **Data integration:** Review of SFMTA existing data and data needs provide appropriate input to ensure the format and content reflects industry best practices and establish a shared baseline of critical data and information that is the foundation for future tasks.
- **Existing Conditions Basemaps:** Review of SFMTA basemap to confirm the format on which to display existing conditions and recommendations data, and to confirm consistency with SFMTA standards and compatibility with integration in the SFMTA Data Store.
- **Bicycle Network Comfort Index:** A comprehensive update of the Bicycle Comfort Index (BCI), last comprehensively updated by SFMTA staff in 2017. Establish the condition of the existing 2017 shapefile, potential changes to BCI methodology, and workplan to update the Index to current conditions. Deliverable was a systematic update to the Index and shapefile as well as documentation of the methodology and instructions for continued updates and maintenance in-line with the future expansion of the network.
- **Review of Past Goals, Policies, Programs and Plans:** Review and summary of plans, policies, and programs relevant to the Active Communities Plan. Includes assessment of peer cities that have moved the needle on mode share, equity, safety, and other areas as well as an evaluation of whether San Francisco has become a “Climber” city, according to the EU’s Presto classification. Findings will inform potential ACP recommendations.

Timeline and Staff Efforts for Tasks

Task 1 efforts were completed from Summer 2022 through Summer 2023. Work on Task 1 kicked off with the basemap review; data integration; and review of past goals, policies, programs, and plans. This was followed by the development of a methodology for the Bicycle Comfort Index update, execution of this methodology, development of a maintenance memo and recalibration of the technology, and development of the Existing Conditions Summary Report.

Data Integration

Task Purpose

The goal of this task is to collect, review, and process relevant data from multiple sources. The integrated dataset provides the foundation for later analyses.



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Data Sources and Coordination

As the basis of the data integration work, the project team used the centerline network data and intersection data from the San Francisco Open Data platform, DataSF. The network and intersection data has unique identifiers for each feature element and sets the foundation for a routable network. Additional roadway-related and built environment attributes were acquired from DataSF, the SFMTA Spatial Data Store, and other city agencies.

The data in the table below were collected over time in an iterative process, as initial analysis findings would call for additional data needs. The data collected were uploaded to a PostGIS database, an open-sourced object-relational database that supports geospatial analysis in PostgreSQL.

Two main approaches to integrate data sources to the base network are table joins and spatial joins. For network attributes that use the same unique identifier (CNN) as the base network, table joins were used to add the additional attributes to the base network. For other sources where the unique identifier is absent, but the geometries share similar patterns to the network, spatial joins and conflation were used to assign additional attributes to the base network based on spatial proximity.

Table 1. Relevant datasets and sources

Data Source	Dataset	Attributes
DataSF/ ArcGIS REST Service	Functional Class	
	Bike Network	Facility type by travel direction
	Land use	
	Posted speed limit (early 2010s)	
	Slow Streets	
	Greenwave signals	
	Bike Network Point Features	
	Parking	Parking Meter Parking Meter Schedules
	Pavement Condition Index	
	311 reports	Blocked Bike Lanes Double Parking
	Transit Only Routes	
Neighborhoods		
TransBASE	Intersections	Number of ramps nearby (2011) Number of bus stops nearby Signal/stop (2019)





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Data Source	Dataset	Attributes
	Streets	Number of lanes (SF-CHAMP 2015) Traffic calming Median presence Number of on/off street parking (early 2010s) Slope (2010) Speed limit (2018) Tree counts Mid-block ped signal (2019) Vision Zero High Injury Network (2017) Street width (2011) Truck route presence (2009)
SFMTA	Prevailing speed (Inrix)	Directional link-level prevailing speed (2022)
	Shared bike and e-scooter micromobility volumes	Shared bike and E-scooter traversal volumes (2022)
	Arterial vehicle volumes (Inrix)	Average weekday volumes
	Quick build bike volumes	AM Peak, PM Peak
	Shared micromobility service areas	E-scooter service areas Bike share service areas
	Police traffic citation data	
Other Data Sources	Bike Counter	Bike counter locations Hourly bike counts (2018-2022)
	Bike and Vehicle volumes (Replica)	Bike link volumes (Fall 2021) Vehicle link volumes (Fall 2021)
	Equity Priority Communities (SFCTA)	
	Census/American Community Survey	

Data Gaps and Assumptions

For datasets that are expected to have full network coverage but are missing data (e.g., slope, number of lanes, traffic volumes), the project team used alternative data sources and/or assumptions to fill the data gaps as described below.

- **Prevailing speed:** For roadway segments where prevailing speed is missing, an average speed is applied based on functional class and land use.
- **Traffic volume:** For roadway segments missing traffic volumes, the primary assumption was to fill missing data with average volumes on the same street of the same functional class. The secondary assumption was to apply the average volume for a given functional class to the streets that are missing volumes and do not have existing volumes on other parts of the same street.
- **Number of lanes:** For roadway segments that are missing number of lanes, the average number of lanes for the given functional class was applied.
- **Pavement Condition Index (PCI):** For streets missing PCI, the average PCI for the given street and functional class is applied. If the street does not have any existing PCI, the citywide average of the given functional class is applied.
- **Slope:** For streets missing slope, the average slope of streets within 0.25 mile of the segment is applied.





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Existing Conditions Basemaps

Task Purpose

The goal of this task was to create a basemap consistent with SFMTA brand and data standards that can be used throughout the project to display existing and recommended conditions.

Summary of Mapping Process

The project team in the Summer of 2022 established basemaps in ArcGIS Pro and ArcGIS Online to produce static and web-based maps in styles consistent with SFMTA style guides. A uniform style across all maps produced for this project can provide consistent look and feel to the graphics in existing conditions, engagement, and in the final report and plan.

SFMTA shared the basemap package, sample maps, and map style guides to ensure consistent branding and style with maps the agency has previously published. Draft basemaps were reviewed and edited before being used in technical memorandums, online maps, and print outs.

Summary of Current & Anticipated Uses

The basemaps developed through this task were documented in a shapefile set that serves as the foundation for all maps developed for the Active Communities Plan. Print-ready copies of basemaps were developed for use in engagement activities. The shapefiles will continue to be used in future tasks, including interactive analysis web maps.

Bicycle Network Comfort Index

Summary of Task Purpose

The purpose of this task was to update the SFMTA's 2017 Bicycle Comfort Index (BCI) methodology and map. San Francisco's bicycle network is made up of five facility types: protected bikeways, bicycle lanes, bicycle routes, off-street multi-use paths, and Slow Streets; these categories do not, however, capture how people experience these facilities while biking and rolling. The BCI evaluates San Francisco's street network using quantitative indicators of comfort and captures more nuance than a standard Level of Traffic Stress (LTS) method. It can be used to identify gaps in the active transportation network and measure the impact of various design interventions.

Summary of 2017 BCI Structure and Purpose

SFMTA staff developed the original Bicycle Network Comfort Index in 2014, following the recommendations of the 2013 SFMTA Bicycle Strategy. The intent was to provide a tool for measuring network quality at a fine-grained level and informing decision-making for future projects. The BCI was subsequently updated in 2017. Both the original 2014 version and the 2017 update only calculated BCI for streets on the bike network, and not for other city streets.

Both the 2014 and 2017 BCI suffered from shortcomings in data, methodology, and utility. As such, the BCI was rarely utilized as a tool for decision-making. It was not easy to update the BCI, use it for modeling purposes, and only was applied to streets on the bike network at the time of its development.

Summary of MTA work and Working Group Meetings

Toole Design and the SFMTA collaborated to define a workplan for the BCI update that would allow key stakeholders and other necessary parties to review the BCI framework and deliverables. SFMTA staff organized a working group of inter-agency partners including the Metropolitan Transportation Commission (MTC), the Mayor's Office, and the San Francisco County Transportation Authority (SFCTA) to inform the BCI development process. The working group met four times between the Fall of 2022 and the



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Spring of 2023. SFMTA also hosted multiple “brown bag” session with agency staff to solicit feedback for the BCI development process. The working group primarily informed the data sources used and the framework used to organize/calibrate data for scoring within a BCI system.

Summary of Toole Design Workplan and Methodology

The project team worked together to develop a BCI framework that tells a nuanced story about bicycle and micromobility comfort in San Francisco. The proposed framework, illustrated in Figure 1, aims to account for factors that the SFMTA can control or influence (such as facility type), and factors outside of the agency’s control (such as slope/elevation). By differentiating between these factors, the BCI score and its component subscores support SFMTA staff in identifying and prioritizing investments in physical infrastructure and policy changes that can influence bicyclist comfort.

The primary goals of the BCI are:

- Capture a variety of quantitative and qualitative factors that impact comfort, customized for the San Francisco context
- Apply a nuanced, defensible methodology that can be regularly updated and easily maintained
- Allow the SFMTA to test and measure the impact of different design interventions on levels of comfort.
- Account for the fact that comfort is influenced by factors that the SFMTA can influence and by factors that it cannot.

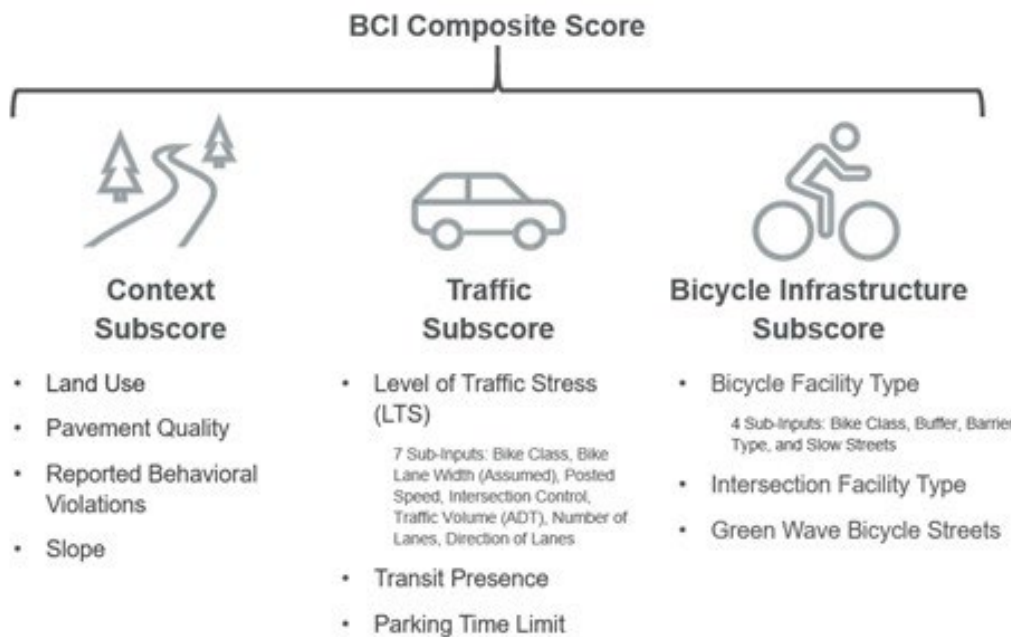


Figure 1. Proposed BCI Composite Score Framework

Summary of Preliminary Outputs and Integration with Public Outreach

Notable findings:

- The type of bicycle facility has a big impact on comfort, with more protected facilities being generally more comfortable, but other factors can make using a Class IV or Class I facility





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uncomfortable. Likewise, areas of the city that are predominantly commercial and industrial can actually be quite comfortable for riding if other conditions are right.

- Slope has a very strong influence on comfort. Many city streets, even those in quiet neighborhoods and parks, are too steep to be comfortable for most people.
- Slow Streets have some of the highest comfort scores, as they are areas that are designed for slow vehicle speeds; lots of people walking, biking, and rolling; and tend to be relatively flat.
- Most Equity Priority Communities have a mix of BCI scores, except for the Tenderloin, where most streets perform poorly on the BCI due to traffic, slope, and lack of bike facilities.

Initial BCI results were included in online interactive maps. Feedback on perceived level of comfort traveling on different bicycle facility types was collected via Phase 2 engagement, including the online survey, Resident Preference Survey, and in-person event activities. This information will be used to refine (or “calibrate”) the BCI to better reflect community input on facility comfort and other factors that support traveling by bicycle in San Francisco.

Summary of Anticipated Uses and Maintenance

The updated BCI scores will inform ACP network recommendations by enabling the SFMTA to identify investments that can have the highest impact on comfort and encourage ridership. Documentation of methodology and steps for maintaining the BCI were provided, so that the BCI can be used as an active tool for the SFMTA in future decision making. The BCI will be integrated with the SFMTA Spatial Data Store, so that changes to roadway data will be automatically reflected in BCI scores, ensuring it is an up-to-date tool for decision making.

Review of Past Goals, Policies, Programs and Plans

Summary of Task Purpose

The purpose of this task was to evaluate plans, policies, and programs relevant to the Active Communities Plan, and to assess what peer cities are moving the needle on mode share, equity, safety, and other areas relevant to the Active Communities Plan. This task also assessed San Francisco’s current standings according to the Bicycle Friendly Community (BFC) and the EU’s PRESTO classifications. The documentation of relevant City, County & Regional plans and lessons from external bodies will ensure consistency with prior work and inform plan development.

Summary of Coordination and Identification of Review Documents

The SFMTA project team worked in the Summer of 2022, in close collaboration with the Technical Advisory Committee, to identify all plans, policies, and documents relevant to the Active Communities Plan process. This list of documents included City, County, Regional, and State plan documents and stretched back to the 2009 Citywide Bicycle Master Plan. Throughout the review process over the Summer and Fall of 2022, additional documents were identified and added to the queue.

Summary of Review Process and Structure

In total, 81 plans, policies, and programs were identified for review. A team of multi-agency collaborators conducted summary reviews of each document over the Summer and Fall of 2022. Each reviewer was given a standardized template to work off of, ensuring key information was captured consistently. Each review attempted to capture relevant goals, projects, programs, and policies, along with an assessment of implementation success.



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The plan review organized documents by owner. SFMTA, responsible for 34 of the documents, was split into subsections of “Bicycle Documents”, “Plans and Policies”, “Programming”, “Major Development Mitigation Plans”, and “Community Based Transportation Plans”.

Purpose of the Plan Review

The Plan Review is meant to act as a reference guide for the plan development process. It can allow practitioners to easily access summaries of critical plan documents meant to influence, and provide context to, the plan recommendations for the Active Communities Plan.

Summary of Peer City Review

Peer cities, or cities with similar characteristics and active transportation progress as San Francisco, were identified to offer guidance in areas in which they excel. The primary criteria for peer cities were comparable bike-friendly progress (as determined by BFC and People for Bikes scores) and size (population, area, and density). The final list of peer cities is described in Table 3. They range from flat to steep terrains and year-round pleasant weather to months of snow, illustrating that there is no one-size-fits all approach to expanding bicycling.

Each of the peer cities is recognized as leading cities for bicycling in North America, and all US peer cities have achieved BFC Gold (BFC does not designate Canadian cities). Additionally, all have bikeshare programs and offer bikeshare subsidies to low-income populations. Differences across the cities are highlighted in the table below.

Table 3. Peer Cities Comparative Statistics

City	2021 Population / Sq. Mileage	Density (persons / sq. mi)	Length of Total Bicycle Network (Date)	Miles of Protected Bikeways and Off-Street Paths (% of Total)	Bicycle Program Staff to Population °	Bicycle Commute Mode Share 2019*	Active Transportation Education Included in Public School Curriculum	Fatalities per 10k Bicycle Commuters
San Francisco	815,201 46.87	17,393	464 [†] (2021)	120 (26%)	1 per 17.6K	4%	No - Optional events and classes are offered (weekends/summer)	1.4
Seattle	733,919 83.78	8,760	297 (2020)	Unknown	1 per 46K	3.5%	Yes - “Let’s Go” program for elementary students; modules in development for kindergarteners and middle schoolers	1.9
Austin	964,177 305.1	3,547	Unknown	215 (52%) [†]	1 per 61K	1.3%	No- Schools can opt for Safe Routes to provide trainings	2.5
Cambridge	117,090 7.104	16,482	94 (2019)	44 (47%)	1 per 7K	7.7%	Yes- “Second Grade Pedestrian and Bicycle Safety Unit”	1
Washington, DC	690,093 68.34	10,098	164 (2022)	84 (51%)	1 per 99K	4.5%	Yes- Part of second grade P.E. classes	1
Vancouver, BC	662,248 44.39	14,917	202 (2019)	50-60 (25-30%) [†]	N/A	13.2% [^]	Yes- “Everyone Rides Grade 4-5”	Unknown

[†] This number may be comparatively higher since San Francisco totals facilities on both sides of the street (e.g., one mile of bike lanes on two sides of the street = two miles).

[†] This value represents the all ages and abilities network, which additionally includes bike boulevards (or analogue facilities).

[°] Based on most recent BFC report card, which varies by city and only exists for U.S. cities.





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* 2019 statistics were chosen due to the pandemic-era decrease in commuters observed in all U.S. cities. American Community Survey 5-Year Estimates is the source for U.S. data.

^ Based on 2019 Vancouver Panel Survey. (Canada Census Journey to Work is only available every five years.)

Key points of comparison between San Francisco and the identified peer cities include the following.

- **Miles of Protected Bikeways and Off-Street Pathways:** Differences in size between cities make comparison of total mileage difficult. Percentage of total bikeway mileage that is protected and/or off-street is more useful. San Francisco has a relatively small proportion of protected facilities (26%), while peer cities hover around the 50% mark. It might be more useful to include all ages and abilities facilities (which also include Slow Streets, bike boulevards, and neighborhood greenways), but this indicator is not available across cities.
- **Bicycle Program Staffing:** Comparing bicycle program staff-to-population ratios across peer cities indicates that a strong active transportation program does not necessarily require a city to increase program staffing. There is quite a range in bike staff to population ratios across these peer cities, yet all are recognized as top bicycling cities in North America.
- **Bicycle Commute Mode Share:** High rates of telecommuting and changing norms limit the usefulness of this indicator in the post-pandemic world. Regardless, 2019 commute mode share (the most recent pre-pandemic estimate) is compared here to get a general sense of bicycling rates across cities. As indicated in the chart above, Cambridge and Vancouver are the leaders in this category.
- **Active Transportation Education:** Most of the peer cities include active transportation education as part of their public-school curriculums. While most cities tend to offer this education during one school year (i.e., second grade, fourth grade, etc.) Seattle is working towards a comprehensive bicycle education program.
- **Bicyclist Fatalities:** The peer cities with the lowest bicyclist fatality rates also have lowered speed limits citywide in previous years. Cambridge lowered speed limits on its arterials to 25 mph in 2016 and on local roads to 20 mph in 2019, and Washington, D.C. rolled out speed limit reductions from 2020-2022. This is described in more detail in the following spotlight section.
- **Equity:** All peer cities have meaningfully integrated equity into their active transportation programs when prioritizing bike network facilities and investments. All peer cities also offer subsidized bikeshare memberships for lower-income populations. San Francisco is making similar strides in equity as the other peer cities.

Summary of BFC Review

Bicycle Friendly Cities

The BFC program, developed by the League of American Bicyclists (the League), provides policy guidance to U.S. cities in their efforts to advance bicycling. The program awards each city a ranking based on its bicycling statistics, programs, policies, and accomplishments makes tailored recommendations for improvement. Participating U.S. cities have so far ranked from Bronze to Platinum, and there is an aspirational Diamond tier that no city has yet achieved.

The BFC assessment can be used to guide San Francisco's active transportation policy development and programmatic investment. As of the Spring 2021 BFC report card, San Francisco was rated as a Gold-level community. Some key indicators assessed by the BFC program are summarized below; the full BFC report card includes additional indicators.





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Table 4. Key Indicators of a BFC-Platinum Community

	San Francisco (2021)	Average Platinum Community
Total Bicycle Network Mileage to Total Road Network Mileage	36%	80%
Commute Mode Share	3.96%	16.3%
Bicycle Education in Schools	Average	Good
Share of Transportation Budget Spent on Bicycling	16%	14%
Fatalities per 10k Daily Bicyclists	1.38	0.4
Bicycle-Friendly Laws and Ordinances	Excellent	Very Good

While San Francisco has a way to go in expanding its bicycle network, increasing ridership, decreasing fatalities, and improving education, it does exceed expectations in areas such as bicycle-friendly laws/policy and allocating budget towards bicycling. BFC recommendations include:

- Add more protected facilities
- Convert existing bike routes into lower-stress bicycle boulevards/neighborhood greenways
- Improve tracking of the City’s Complete Streets Policy
- Include bike lane striping as part of repaving plans
- Expand options for high-quality bicycle parking
- Expand bicycle safety education
 - Especially for K-12 students, which may be achieved by expanding school partnerships with local bicycle advocacy groups
 - Motorist awareness education
 - Bicycle skills education
- Ensure schools can be accessed on a low-stress bicycle network

The ACP goals and BFC guidance both prioritize safety, but the ACP goals additionally emphasize comfort. BFC criteria such as percentage of high-speed streets with bicycle infrastructure or ratio of bicycle infrastructure mileage to roadway mileage might therefore be less relevant in the context of the ACP. To capture the impact of policy that reduces speeds or designates low-stress routes parallel to high-speed roads, metrics such as low-stress/high-comfort facility mileage to roadway mileage might be more meaningful.

Additionally, commute mode share has become less relevant as a measure of ridership in a post-pandemic world. Apparent stagnation or decreases in bicycle commute mode share most likely reflect significant increases in hybrid and remote work schedules, as data from Vélo Québec suggests that increases in bicycling are not necessarily accompanied by changes in commute mode share.

PRESTO

PRESTO (Promoting Cycling for Everyone as Daily Transport Mode) is a European program that provides policy guidance and benchmarks for cities to grow their bicycling networks. Cities can self-classify as a “Starter”, “Climber”, or “Champion” city, designations that depend on a mix of bicycling rate and conditions. San Francisco is a “Climber” city. Climber cities may have substantial bicycling infrastructure but lower bicycling rates (mode share from 5-35%), or higher bicycling rates with limited infrastructure; San





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San Francisco is an example of the former. At the Climber level, PRESTO recommends that city efforts focus on infrastructure and promotion.

Notably, PRESTO deprioritizes protected facilities, instead emphasizing the necessity of riders feeling comfortable around traffic and at intersections. Overall, PRESTO recommends the Dutch approach: prioritizing infrastructure that is direct, connected to a broader network, comfortable (smooth and well-lit), and mixes bicyclists with slow vehicle traffic.

PRESTO recommendations include:

- Improve network connectivity so bicyclists can easily travel longer distances
 - Focus on solutions for major roadways and other barriers
- Focus less on separation and more on making bicyclists and motorists comfortable co-existing
 - Focus on infrastructure that mixes bicyclists with slow traffic
- Create positive associations with bicycling
 - Targeted campaigns with local businesses
 - Test rides for schoolchildren
- Provide rewards
 - Subsidized gear
 - Free or subsidized bicycles or electric bicycles, especially for those new to bicycling

Summary of Anticipated Uses

The Plan Review looked at previously adopted plans and policies to ensure that the goals, objectives, policies, and actions adopted in the Active Communities Plan are consistent and supportive.

The BFC and Peer City Review identify areas for the SFMTA to learn from peer and model cities and advance its active transportation network, policies, and programs, and project delivery. BFC and PRESTO guidance help pinpoint areas of focus as the SFMTA develops the ACP. This can guide community engagement and help determine policy recommendations.

San Francisco should consider a full range of strategies to advance its active transportation network independent of specific rating systems or programs. In developing the ACP, San Francisco should consider BFC and PRESTO guidance, along with best practices from peer and model cities, in the context of local conditions and community input. Key considerations from this review include:

- **Increase protected facilities.** Compared to its peers, San Francisco lags in protected facilities. San Francisco has taken the quick-build approach in recent years, rolling out protected infrastructure on its high-injury streets quickly using low-cost and easy to implement (though not necessarily permanent) materials. Cambridge has a community-vetted quick build prioritization process in place to ensure protected facilities are installed on streets that are not subject to its Cycling Safety Ordinance.)
- **Prioritize low-traffic/low-speed shared facilities,** such as Slow Streets and neighborways. This is consistent with the Dutch approach to building infrastructure, and these facilities are more affordable and quicker to implement than trails and protected bikeways. It is imperative, though, that these streets are truly low-volume/low-speed; otherwise, they will not serve riders of all ages and abilities. San Francisco had opted to make some of its pandemic-era Slow Streets permanent and in other parts of the city, it has ramped up its neighborways (bike boulevard analogue) program. Neighborways are implemented on low-speed/low-volume streets and rely on traffic-calming measures, such as raised crossings and roundabouts, to enhance traffic safety (in contrast to Safe Streets, which utilize barriers to fully or partially close streets to through traffic.)



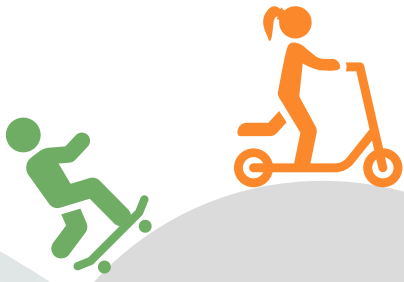
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- **Continue reducing speed limits.** Vehicle speed is the biggest factor in crash severity and can be a huge deterrent from people riding bikes. The passage of Assembly Bill (AB) 43 has allowed California cities to reduce existing speed limits, and San Francisco began implementation in 2021, rolling back speed limits from 25 to 20 mph in parts of its high-injury network, and continued to reduce speed limits from 30 to 25 mph and 25 to 20 mph in key business activity districts.
- **Continue to provide low-stress, connected facilities parallel to major roadways** rather than installing facilities on higher-speed/higher-volume roadways. Folsom and Howard streets, two parallel one-way streets each with a protected bike lane, are a good local example, providing protected facilities parallel to higher-stress Mission Street.
- **Expand promotional efforts to attract new bicyclists.** This is consistent with PRESTO guidance and the efforts in Austin are a great example. Currently, SFMTA does not offer a one-stop website that dually promotes bicycling and connects bicyclists and would-be bicyclists with all the resources they need.
- **Expand bicycle education** and tailor it to all ages and all roadway users, including adults and motorists. Including active transportation education in public schools is a key place to start to ensure that the youngest generations and future generations are encouraged and prepared to be safe active transportation users. Currently, San Francisco Unified School District only offers optional learn-to-ride summer programs and occasional, optional weekend activities for schoolchildren. Seattle's bike education program is an excellent model, leveraging city funding with non-profit expertise and staffing.
- **Make bold policy commitments.** Cambridge and Montreal are leaders when it comes to making the commitment to install safe infrastructure and following through. Similar to Cambridge's Cycling Safety Ordinance, San Francisco is developing a policy to require planned protected bikeways to be installed during the repaving process.
- **Make tangible efforts to build an equitable active transportation network** and livable communities. One approach might be to evaluate whether disadvantaged and underserved communities can access daily destinations within a 15-minute walk or bike ride of their home, and if not, build the necessary connections or make land use decisions that will ensure such destinations exist in these neighborhoods. San Francisco is considering using a similar approach for the ACP Equity Analysis.

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SFMTA Bicycle Documents

2005-2009 San Francisco Bicycle Plan

San Francisco Bicycle Plan (2005-2009)

Object name: [SF Bicycle Plan \(2005-2009\)](#)

Object owner: SF Municipal Transportation Agency

Type of object: Bicycle transportation plan (nominally coherent with [CA Streets and Highways Code Sec 891.2](#))

Relation to other objects: Guides SFMTA capital planning and SFCTA five-year programming. Proposes (now-adopted) amendments to SF General Plan and Planning Code, California Vehicle Code, and other policy and law. Actuates commitments declared in the SF City Charter that San Francisco should develop “a safe, interconnected bicycle circulation network;” and that travel... “by bicycle and on foot must be an attractive alternative to travel by private automobile,” as well as that “bicycling shall be promoted by encouraging safe streets for riding, convenient access to transit, bicycle lanes, and secure bicycle parking.”

Approved/adopted date: June 2009

Approved/adopted authority: SF Municipal Transportation Agency board of directors, with amendments to the SF General Plan and Planning Code approved by the SF Planning Commission, and concurrence from SF Board of Supervisors

Abstract: Update to the 1997 SF Bicycle Transportation Plan. Articulates improvements to the City's existing bicycle route network, including 60 near-term improvement projects, minor improvements and long-term improvements to the bicycle route network, policies and programmatic actions supporting bicycle transportation in San Francisco. Includes amendments to the San Francisco General Plan and Planning Code to reflect the 2009 San Francisco Bicycle Plan.

Effective period: 2009-2015 (for the sake of project grant eligibility under the now-defunct Bicycle Transportation Account)

Relevant Goals:

Vision: Make bicycling an integral part of daily life in San Francisco.

Overall Goal: Increase Safe Bicycle Use

Overall Objectives:

- Increase the daily number of bicycle trips in San Francisco
- Develop improved methods for tracking bicycle usage
- Reduce the rate of bicycle collisions as bicycle usage increases

Relevant Projects: 60 bicycle route network improvements analyzed to project level (four held back from full approval)

Relevant Programs: All, see outline following

Relevant Policies: All, see outline following

Implementation/Program:

Missed opportunities:

Plan Outline

Chapter 1 – Bicycle Route Network



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Chapter 2 – Bicycle Parking

Chapter 3 – Transit and Bridge Access

Chapter 4 – Education

Chapter 5 – Enforcement and Safety

Chapter 6 – Promotion

Chapter 7 – General Plan Amendments, Environmental Review, and Citywide Coordination

Chapter 8 – Bicycle Funding

Appendix 1: Bicycle Route Map

Appendix 2: Bicycle Route Network

Appendix 3: Glossary of Terms

Overall Goal: Increase Safe Bicycle Use

Overall Objectives:

- Increase the daily number of bicycle trips in San Francisco
- Develop improved methods for tracking bicycle usage
- Reduce the rate of bicycle collisions as bicycle usage increases

Chapter 1 – Bicycle Route Network

Goal: Refine and Expand the Existing Bicycle Route Network

Objectives:

- Establish a comprehensive network of bikeways that are appropriately signed, marked and/or traffic-calmed and that provide convenient and direct connections to all of San Francisco's neighborhoods. The facilities along the bicycle route network should include the following conventional treatments depending on the design of the bicycle improvements and conditions:
 - Off-street bicycle and mixed-use paths
 - Bicycle lanes
 - On-street signed bicycle routes
 - Shared roadway bicycle markings (sharrows)
 - Traffic-calmed streets
- Utilize innovative designs, where appropriate, to improve bicycle usage and safety
- Ensure that the bicycle route network:
 - Provides bicycle access to all commercial and residential areas
 - Provides bicycle access to all San Francisco Municipal Transportation Agency (SFMTA) Muni Metro, Bay Area Rapid Transit (BART) and Caltrain stations, ferry terminals and other major transit hubs
 - Is well signed, well striped and well paved

Actions:

Action 1.1

Implement improvements to streets and paths identified as proposed near-term bicycle improvement projects and implement minor improvements to other streets and paths on the existing bicycle route network, if feasible.



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Action 1.2

Complete the required design and engineering for improvements to streets and paths identified as proposed long-term bicycle improvement projects and implement, if feasible.

Action 1.3 (done!)

Maintain an SFMTA Geographic Information System (GIS) database of the bicycle route network, and update the database whenever route changes occur.

Action 1.4

Work with other City agencies to ensure that San Francisco continues to implement the *Transit First* policy.

Action 1.5

Conduct a before and after study on the impacts of allowing bicycles in exclusive bus/taxi lanes.

Action 1.6

Review multi-lane streets for excess capacity and explore travel lane removals where excess capacity exists to accommodate bicycle lanes or other bicycle-friendly treatments.

Action 1.7

Work with the California Department of Transportation (Caltrans) to analyze and add bicycle facilities where appropriate on current State highways within San Francisco.

Action 1.8 (done!)

Work with the responsible San Francisco agencies to develop revisions to San Francisco's level of service (LOS) standards and methodologies such that they better respond to the multimodal nature of San Francisco's transportation system, specifically addressing bicycles.

Action 1.9

Define "bicycle boulevards" and develop criteria for identifying streets that could be designated as bicycle boulevards.

Action 1.10

Review international best practices and implement innovative design treatments along the bicycle route network with an appropriate level of analysis and study.

Action 1.11 (done)

Prioritize installation of shared roadway bicycle markings where safety could be improved.

Action 1.12

Work with the Department of Public Works (DPW) to enforce standards that must be strictly adhered to by contractors for street excavation restoration.

Action 1.13

Work with the responsible San Francisco agencies to create a prioritized citywide bicycle and mixed-use pathway inventory that includes surface condition; signage and lighting status; required maintenance or improvements needed; and the agency responsible for each pathway.

Action 1.14

Work with the DPW and the Recreation and Park Department to maintain a regular sweeping schedule of bicycle routes on City-accepted streets and City-maintained off-street paths that are not currently cleaned on a regular schedule, in addition to sweeping bikeways whenever there is an accumulation of debris such as gravel, glass and sand.

Action 1.15

Work with the DPW to prioritize streets on the bicycle route network within the DPW's street resurfacing program.

Action 1.16



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Work with the DPW to inspect streets on the bicycle route network on a yearly basis.

Action 1.17

Create an inventory of locations along the bicycle route network that intersect or run parallel to railroad tracks, and identify appropriate measures to mitigate the impacts of the track crossings to bicyclists.

Chapter 2 – Bicycle Parking

Goal: Ensure Plentiful, High-Quality Bicycle Parking

Objectives:

- Provide secure short-term and long-term bicycle parking, including support for bike stations and attended bicycle parking facilities, at major events and destinations; and
- Provide current and relevant information to bicyclists regarding bicycle parking opportunities through a variety of formats.

Actions:

Action 2.1

Work with the Planning Department to consolidate Sections 155.1-155.5 of the Planning Code to provide clearer regulation, guidance and exemptions related to bicycle parking.

Action 2.2

Work with the Planning Department to modify the Planning Code's requirements for bicycle parking so that they are less dependent on automobile parking provisions.

Action 2.3

Work with the Planning Department to amend the Planning Code to increase required bicycle parking for new residential developments.

Action 2.4

Work with the Planning Department to increase monitoring and enforcement of bicycle parking provisions in the Planning Code, especially when issuing building permits.

Action 2.5

Conduct the SFMTA's bicycle parking training for new Planning Department personnel as needed.

Action 2.6

Work with the responsible San Francisco agencies and entities to ensure that all garage bicycle parking is secure, well monitored and well-advertised at garage entrances and other appropriate locations.

Action 2.7

Hold meetings as needed between SFMTA and Planning Department staff to update citywide bicycle parking compliance status and review bicycle parking information posted on the SFMTA website.

Action 2.8

Ensure that all City leases are negotiated to include the required level of bicycle parking by cooperative efforts of the City Real Estate Department and the SFMTA.

Action 2.9

Pursue a citywide policy to provide secure bicycle parking at all City buildings in areas to be specified by the individual agencies, subject to safety regulations and available space, by cooperative efforts of the City Real Estate Department, the Planning Department and the SFMTA.



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Action 2.10

Work with the Planning Department to amend the Planning Code to lower the number of automobile parking spaces required in buildings where Class I bicycle parking is provided.

Action 2.11

Work with the Planning Department to amend the Planning Code to require bicycle parking in each individual building of large, multiple-building developments.

Action 2.12

Work with the Planning Department to amend the Planning Code to require building owners to allow tenants to bring their bicycles into buildings unless Class I bicycle parking is provided.

Action 2.13

Work with the responsible San Francisco agencies to prepare additional guidelines for the placement and design of bicycle parking within City rights of way, including curbside on-street bicycle parking where feasible and “sleeve” ring racks on parking meters.

Action 2.14

Develop and maintain an SFMTA bicycle parking outreach campaign in various formats to provide relevant bicycle parking information such as garage locations with bicycle parking and bicycle locker availability.

Action 2.15

Work with the San Francisco Police Department (SFPD) to make bicycle theft investigation a higher priority and create a better system for returning recovered bicycles to their owners.

Chapter 3 – Transit and Bridge Access

Goal: Expand Bicycle Access to Transit and Bridges

Objectives:

- Provide bicycle access to transit vehicles whenever feasible
- Provide convenient bicycle access and bicycle parking at transit stations
- Provide bicycle access to all local bridges wherever feasible

Actions:

Action 3.1 (done)

Create an SFMTA policy that explicitly permits folded bicycles on all SFMTA transit vehicles.

Action 3.2

Develop a pilot program to provide bicycle access on SFMTA light rail vehicles for a trial period that would be monitored for potential future implementation.

Action 3.3

Update the SFMTA’s bicycle accessibility guidelines and widely distribute and publicize these guidelines.

Action 3.4

Create an SFMTA policy that allows bicyclists with disabled bicycles to bring them aboard SFMTA transit vehicles, interior space permitting and at the vehicle operator’s discretion, when the SFMTA transit vehicle either does not have bicycle racks or when the racks are full.

Action 3.5 (done!)

Install bicycle racks on all SFMTA-operated buses, and work with other transit operators with buses operating in San Francisco to install bicycle racks on their bus fleets.

Action 3.6 (done!)



Work with BART to analyze existing bicycle policies, identify expanded bicycle access times and create a trial program for non-folding bicycle access in both directions on Transbay peak period trains.

Action 3.7 (done)

Work with Caltrain to expand bicycle access on its trains and to its San Francisco stations by promoting bicycling to stations and by providing secure bicycle parking at station areas.

Action 3.8

Ensure that all San Francisco transit stations, including the new Transbay Terminal, provide barrier-free bicycle access and state-of-the-art bicycle parking facilities, and work with the California High-Speed Rail Authority to ensure bicycles are accommodated on its long-distance trains.

Action 3.9

Work with San Francisco Bay Area transit operators and the Metropolitan Transportation Commission (MTC) to develop, implement, maintain, expand and enforce improved intermodal bicycle access.

Action 3.10

Promote bicycle parking stations at major transit hubs that provide secure, monitored bicycle parking, bicycle commuter information and bicycle maintenance services.

Action 3.11

Work with Caltrans and the Golden Gate Bridge, Highway and Transportation District (GGBHTD) to provide improved bicycle access to and upon all San Francisco bridges wherever feasible and appropriate.

Chapter 4 – Education

Goal: Educate the Public about Bicycle Safety

Objectives:

- Create, fund and implement bicycle safety curricula for the general public and targeted populations
- Create, fund and implement bicycle safety outreach campaigns for motorists, bicyclists and the general public

Actions:

Action 4.1

Provide SFMTA bicycle safety information to diverse age, income and ethnic populations.

Action 4.2

Provide SFMTA bicycle safety information in languages that are widely used within San Francisco such as Chinese and Spanish.

Action 4.3

Partner with other agencies, where appropriate, to distribute SFMTA bicycle safety education materials in mass mailings.

Action 4.4

Work with the SFPD to create a bicycle traffic school curriculum as an option in lieu of other pecuniary penalties for traffic law violators.

Action 4.5

Increase SFMTA participation in Bike to Work Day activities by providing resources and materials as staff availability and funding allow.



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Action 4.6

Implement new outreach campaigns for improved bicycle facilities.

Action 4.7

Develop SFMTA bicycle safety classes for City employees.

Action 4.8

Develop an SFMTA bicycle safety workshop for transit vehicle operators and other large fleet-vehicle operators.

Action 4.9

Develop bicycle education curricula for use in the San Francisco Unified School District (SFUSD), San Francisco public colleges and sharing with other schools.

Action 4.10

Work with the SFUSD to promote a transportation curriculum in lieu of driver's education at City high schools that provides instruction on all modes of transportation.

Action 4.11

Periodically evaluate and adjust, where appropriate, the SFMTA's bicycle safety program.

Chapter 5 – Enforcement and Safety

Goal: Improve Bicycle Safety through Targeted Enforcement

Objectives:

- Increase SFPD enforcement of motorist and bicyclist traffic violations that pose the greatest threat to safety
- Provide SFMTA bicycle safety education to SFPD staff and to those cited for moving violations that focuses on safe cycling, relevant traffic laws and safe sharing of the roadway
- Increase SFMTA and SFPD enforcement of motorist violations in bicycle facilities

Actions:

Action 5.1 (Vision Zero committed and Focus on the Five articulated)

Work with the SFPD to place a high priority on enforcement of both bicyclist and motorist violations that most frequently cause injuries and fatalities.

Action 5.2

Work with the SFPD to develop a “fix-it ticket” program for bicycle equipment violations.

Action 5.3

Work with the SFPD to develop a method to systematically share non-collision bicyclist citations with the SFMTA.

Action 5.4

Work with the SFPD and the Superior Court of California to develop and implement a bicycle traffic school program as an option for those cited for moving violations.

Action 5.5 (done)

Support efforts to change California Vehicle Code (CVC) Section 21754 (Passing on the right) so that it applies to bicycles.

Action 5.6

Increase parking enforcement and fines for violations involving vehicles parking or double-parking in bicycle lanes.

Action 5.7

Post “no stopping in bike lane” signs along bicycle lanes where double parking violations occur and work with the SFPD to increase enforcement of these violations.



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Action 5.8

Work with the SFPD to increase the enforcement of the prohibition of operating motorcycles in bicycle lanes.

Action 5.9

Develop an SFMTA bicycle safety curriculum for all SFPD police officers that focuses on the rights and responsibilities of bicyclists and techniques required for safe and legal sharing of the roadway.

Action 5.10

Work with the SFPD to increase bicycle-mounted enforcement patrols.

Action 5.11

Work with the SFPD to develop a system for hospitals, emergency rooms and clinics to report all instances of bicyclist injuries to the SFPD and to the SFMTA.

Action 5.12

Inform bicyclists that they are legally entitled to file a collision report when one is not initiated by the police.

Action 5.13

Develop a standardized procedure for reporting bicycle-related incidents with transit vehicles and ensure that this information is readily available to appropriate City staff.

Chapter 6 – Promotion

Goal: Promote and Encourage Safe Bicycling

Objectives:

- Through community partnerships, identify funding, develop and implement bicycle media campaigns and promotional materials to promote bicycling as a safe, healthy, cost-effective, environmentally beneficial transportation choice
- Target promotional materials to San Francisco's diverse population groups

Actions:

Action 6.1

Promote the benefits of bicycling to diverse age, income and ethnic populations.

Action 6.2

Work with the Department of the Environment (SF Environment), the Department of Public Health (DPH), and other City agencies to formalize bicycle education and promotion responsibilities and to develop partnership agreements with the SFMTA.

Action 6.3

Work with all City agencies to expand bicycle promotion and incentive programs for City employees to serve as a model program for other San Francisco employers.

Action 6.4

Include, where appropriate, telephone and web-based contact information for the MTC "511" program on relevant SFMTA materials.

Action 6.5

Encourage and promote bicycle-related businesses within San Francisco.

Action 6.6 (done!)

Conduct a feasibility study for a public bicycle sharing program and if feasible, develop a plan for potential future implementation including any required environmental review.



Active Communities Plan



Chapter 7 – General Plan Amendments, Environmental Review, and Citywide Coordination

Goal: Adopt Bicycle-Friendly Practices and Policies

Objective: Integrate consideration of bicycle travel into all roadway planning, design and construction

Actions:

Action 7.1

Incorporate this Bicycle Plan in whole by reference into the General Plan and amend sections of the General Plan that are relevant to bicycling, including the Transportation Element and relevant Area Plans, according to the goals of this Bicycle Plan.

Action 7.2

Ensure adequate and appropriate environmental review under the California Environmental Quality Act for the Bicycle Plan and all discretionary actions under the Bicycle Plan that may have a direct or indirect physical environmental impact.

Action 7.3

Work with the Planning Department to coordinate updates to the General Plan, if necessary, as subsequent amendments and updates to the Bicycle Plan and bicycle route network occur.

Action 7.4

Work with the Planning Department to ensure that all current and proposed Area Plans' objectives and policies on balance are consistent with the goals of the San Francisco Bicycle Plan. Whenever updates or revisions are considered to existing Area Plans, especially those that do not now contain sections on bicycling, these Area Plans should include sections on bicycling consistent with the goals of the Bicycle Plan.

Action 7.5

Work with the Planning Department as transportation impact guidelines are updated to ensure impacts of new projects consider bicycles.

Action 7.6

When City transportation or development studies include non-automated traffic counts, work with the responsible San Francisco agencies to collect, where appropriate: bicycle counts; an inventory of existing bicycle parking within a two-block radius of the study site; and the project's potential impacts on any existing or proposed bikeways.

Action 7.7

Work with public agencies with jurisdiction or right of ways within San Francisco to ensure coordination of any proposed bicycle facilities.

Chapter 8 – Bicycle Funding

Goal: Prioritize and Increase Bicycle Funding

Objective: Identify and pursue new and existing local, regional, state and federal funding sources for bicycle facility improvements and bicycle education and promotion programs

Actions:

Action 8.1

Work with appropriate agencies to identify funding to assist in achieving the goals and objectives set forth in this Bicycle Plan.



SFMTA

Active Communities Plan







Appendix 1: Bicycle Route Map





Recommended Near-Term and Long-Term Improvements to the Bicycle Route Network

-  Near-Term Bicycle Improvement Projects
-  Long-Term Bicycle Improvement Projects
-  Minor Improvements to Bicycle Route Network
-  Existing Bicycle Route Network
-  Long-Term Transbay Transit Center Connection

Incorporated into SF General Plan, Transportation Element, [Map 13](#) (General Plan amendments made at adoption of the Bicycle Plan in 2010)

Appendix 2: Bicycle Route Network

Text description of numbered bicycle routes (85 routes, from *Route 2: The Embarcadero to the Golden Gate Bridge* to *Route 990: City College Overcrossing of Ocean Avenue Connector*)

[Reference instance stored elsewhere](#)

Appendix 3: Glossary of Terms

[Reference instance stored elsewhere](#) (includes such terms as “HNBD – Has Not Been Drinking”)



Active Communities Plan



2012 State of Bicycling Report

Object name: [2012 San Francisco State of Cycling Report](#)

Object owner: SFMTA

Type of object: Summary Report

Relation to other objects: Reports progress on 2009 Citywide Bike Plan

Approved/adopted date: October 2012

Approved/adopted authority: N/A

Abstract: The 2012 State of Cycling Report is a benchmark report documenting recent counts and ridership trends, collision analysis, the results of a 2011 phone & intercept survey, and plans for future network implementation.

Effective period: superseded by 2016 Pedaling Forward Report

Relevant Goals: 2010 Board of Supervisors resolution to achieve 20% bicycle mode share by 2020. SFMTA Strategic Plan goal of 9% bicycle mode shift by 2018 (as larger goal of 50% non-auto trips).

Relevant Projects: Documents pilot projects experimenting with bicycle boxes, green-backed sharrows, green wave signal timing, and cycle tracks (this report precedes Caltrans approval of cycle track Class IV facilities).

Relevant Programs: Provides analysis of the bike counts program & data. Provides overview of bicycle education classes.

Relevant Policies: References Transit First Policy. Recommends increased enforcement coordination with SFPD. Recommends additional programming to encourage women, older adults, and residents of color to adopt bicycling.

Implementation/Program:

Missed opportunities:



Active Communities Plan



2013-2018 SFMTA Bicycle Strategy

Object name: [SFMTA Bicycle Strategy](#)

Object owner: SFMTA

Type of object: Summary Report

Relation to other objects: Successor to 2009 Bicycle Plan, but without identified projects

Approved/adopted date: April 2013

Approved/adopted authority: SFMTA Board

Abstract: The 2013-2018 Bicycle Strategy was meant as a successor document to the 2009 Bicycle Plan. Due to the successful environmental litigation against the 2009 Bicycle Plan, the Bicycle Strategy attempted to provide a programmatic update and a range of potential policy actions without straying into the realm of defined projects that could trigger environmental review. The document establishes policy targets to increase bicycle mode share and achieve city-established goals. The strategy includes comparisons against peer cities, exploration of benefits of bicycling, and a needs assessment for the bike network.

Effective period: 2013-2018

Relevant Goals: Goal of 8-10% bicycle mode share by 2018-2020, contributing to 50% non-auto trips goal in the SFMTA Strategic Plan. Outlines 4 strategy goals with series of subgoals and benchmarks:

1. Improve Safety and connectivity for people traveling by bicycle
2. Increase convenience for trips made by bicycle
3. Normalize riding bicycles through media, marketing education, and outreach
4. Plan and deliver complete streets projects

Much of the proposed targets in the 2013 Bicycle Strategy were not met.

Relevant Projects: Recommendation to improve the density of the core network, connect fragmented portions of the network. Outlines "Bicycle Infrastructure Toolkit". Outlines funding scenarios to achieve target goals.

Relevant Programs: Recommendations to focus bicycle parking installation in urban core and on commercial corridors in outer neighborhoods. Recommendation for additional bicycle parking at transit hubs. Recommendations to expand bicycle education and encouragement programming. Recommendation to establish a level-of-traffic stress analysis methodology for the bike network. Outlines "Support Program Toolkit"

Relevant Policies: Recommendation to prioritize network implementation at high-collision locations. Proposed strategies to involve senior & disability community. Proposed strategies to involve taxi & shuttle operators. Proposes prioritization framework for project funding.



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Implementation/Program:

Missed opportunities: Much of the policy actions and identified needs in the Bicycle Strategy had no implementing mechanism. As such, they were never integrated into the SFMTA workplan.



Active Communities Plan



Guidelines for Accessible Building Blocks for Bicycle Facilities

Object name: Guidelines for Accessible Building Blocks for Bicycle Facilities

Object owner: SFMTA, Mayor's Office on Disability (MOD), Department of Public Works, and Planning Department

Type of object: Design Guidelines ([PDF](#))

Relation to other objects: The San Francisco Better Streets Plan

Approved/adopted date: 2014

Approved/adopted authority: N/A

Abstract: Guidelines address accessibility for seniors and people with disabilities along streets with separated bicycle facilities. The guidelines in this document are necessary because neither the California Building Code, nor the 2010 ADA Standards for Accessible Design Guidelines (2010 ADAS) currently contain accessible design criteria for bicycle facilities. Regardless, Title II of the Americans with Disabilities Act (ADA) requires the City and County of San Francisco and the SFMTA to provide programmatic access to all facilities and programs, including new bicycle facilities.

Effective period: N/A

Relevant Goals: As the City of San Francisco makes improvements to the safety and convenience of walking and cycling, it is important to always consider access for people with disabilities, which may entail the use of other modes of transportation, such as transit, paratransit, and private automobiles.

Relevant Projects:

Relevant Programs: Title II of the Americans with Disabilities Act (ADA) requires the City and County of San Francisco and the SFMTA to provide programmatic access to all facilities and programs, including new bicycle facilities.

Relevant Policies: Unobstructed access to accessible parking and passenger loading zones, allow paratransit vehicles to block bike lane to drop-off passengers on the sidewalk, if parking spaces are removed: replace accessible parking spaces and assess saturation and distribution of accessible parking spaces (page 5). Bike racks and bike share stations, shall be located within the furnishings zone, strongly consider placing bike lanes on the left side of one-way streets to avoid conflict with accessible loading zones (page 6). Enough accessible parking so that the corridor cumulatively has 4% of metered spaces designated as accessible parking and projects should attempt not to undoing measures from previous projects (page 6 and 7). Continental striping on any marked crosswalks crossed by the bicycle facility (page 8). Guidelines for buffers, barriers, and platforms – specifically for parking-separated bicycle lanes with painted buffer zones and raised cycle tracks (page 8 – 12).



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Implementation/Program: Title II of the Americans with Disabilities Act (ADA), and the Code of Federal Regulations Titles 49 and 36 (including the 2010 ADAs)

Missed opportunities:



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Bike Marketing Research & Surveys

Object name: San Francisco Bicycle Usage and Awareness Opinions Research Findings

Object owner: SFMTA

Type of object: Analysis

Relation to other objects:

Approved/adopted date: January 2016

Approved/adopted authority:

Abstract: The SFMTA contracted with EMC Research in 2015 to conduct a two-step survey process to better understand the barriers that prevent residents from bicycling, identify initiatives and messages that could increase bicycle usage, and develop population groupings based on self-reported bicycling behaviors and attitudes. The findings included recommendations around messaging for future projects, potential programmatic efforts, and inform the TDM Strategy – which was in development at the time.

Effective period: N/A

Relevant Goals: Support Vision Zero and SFMTA Strategic Plan goals.

Relevant Projects:

Relevant Programs: TDM Program.

Relevant Policies:

Implementation/Program: Survey findings were integrated into some following documents, such as the 2018 Pedaling Forward report.

Missed opportunities: Findings from the survey were not applied consistently to future projects & messaging by SFMTA.



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2017 Pedaling Forward Report

Object name: [Pedaling Forward](#)

Object owner: SFMTA

Type of object: Summary Report

Relation to other objects: Successor to 2012 State of Cycling report

Approved/adopted date: April 2018

Approved/adopted authority: N/A

Abstract: The Pedaling Forward report summarizes the work of the SFMTA Livable Streets sub-division in relation to the bike network. The report also identifies future workplan & investment commitments for implementation of the bike network. Shares results of 2015 survey on attitudes towards bicycling.

Effective period: 2017-2021

Relevant Goals: Establishes framework for protected bikeways and neighborways as the two preferred types of network infrastructure. Establishes vision statement organized around Safe Streets, Better Options, Better Quality of Life, and Improving Business.

Relevant Projects: Identifies \$112.6 million of funding for bikeway projects, representing 92 new miles of bikeway projects.

Relevant Programs: Documents status of bikeshare program as of 2017.

Relevant Policies: References Vision Zero policy, adopted in 2014.

Implementation/Program:

Missed opportunities:



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2019 SFMTA Bike Program Report

Object name: [2019 SFMTA Bike Program Report](#)

Object owner: SFMTA

Type of object: Summary Report

Relation to other objects: Report from SFMTA Planning Sub-division; update to 2013 Bike Strategy

Approved/adopted date: Published 2019; no adopting action

Approved/adopted authority: N/A

Abstract: The 2019 SFMTA Bike Program Report served as an update to the 2013-2018 SFMTA Bike Strategy. The document is largely a summary report of the breadth of capital projects, programs, and policy efforts relating to bicycling within SFMTA between 2013 and 2018. The report also documents future commitments by the SFMTA for programming and capital investments.

Effective period: 2019-2022

Relevant Goals: 3-year workplan goals:

- 27 miles of protected bikeways
- 15 miles of neighborways
- equivalent network quality across neighborhoods
- 2,250 new bike rack work orders
- bicycle education in 45 SFUSD schools
- \$90,000,000 invested in bike projects

Relevant Projects: Provides overview of Livable Streets project delivery mechanisms (bike safety & connectivity spot improvement program, construction coordination program, residential traffic calming program, Quick Build program, Quick & Effective program, Safe Streets Evaluation program).

Relevant Programs: Overview provided of bike counts program, in-school bicycle education, bicycle outreach & adult education, Sunday Streets programming, bicycle parking program, bike share & scooter share programs, and bicycle wayfinding program.

Relevant Policies: references equity commitments, climate action plan, and vision zero program.

Implementation/Program: Established 4 metrics for evaluating progress of 3-year workplan:

1. Improve Safety, Comfort & Connectivity for All People Traveling by Bike
 - a. Total miles of protected bikeways installed
 - b. Total miles of neighborways installed
2. Bike Parking Implementation & Utilization
 - a. Short-term bike parking installed
 - b. Increase utilization of existing long-term parking



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- c. Implementation of long-term bicycle parking business plan
- 3. Expand Bike Education and Access
 - a. SFUSD schools receiving in-school bicycle education
 - b. Provide more monolingual bicycle education programming
- 4. SFMTA Project Delivery, Accountability & Transparency
 - a. Planned bicycle project initiation rate
 - b. Funding allocated to bicycle infrastructure
 - c. Participation in outreach activities per year

Missed opportunities: No follow-up work was conducted to track progress against established metrics.



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District 4 Mobility Study

Object name: District 4 (D4) Mobility Study

Object owner: San Francisco County Transportation Authority

Type of object: Study

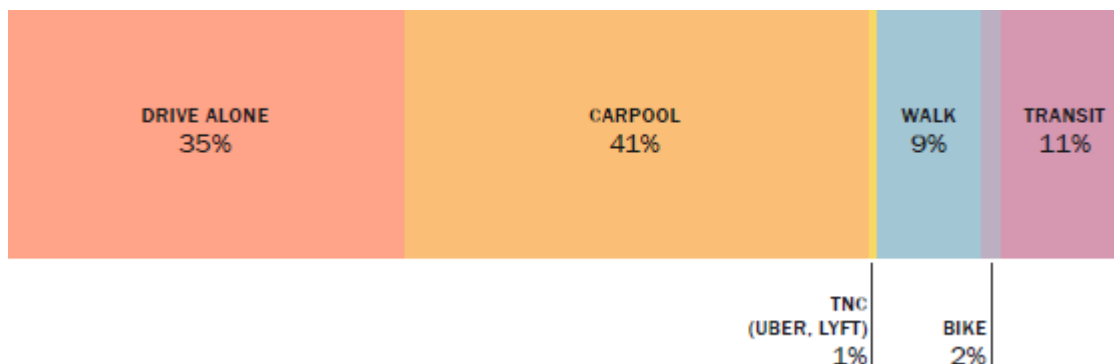
Relation to other objects: N/A

Approved/adopted date: 2022

Approved/adopted authority: SFCTA

Abstract: The study explores ways to increase walking, biking and transit use in the Outer Sunset and Parkside neighborhoods to 1) improve health and safety, 2) increase livability, 3) support a thriving local economy, and 4) address climate change locally. Through past studies and planning efforts, the key issues consistently raised were **transit reliability** and **pedestrian and bicycle safety**.

A **travel market analysis** was conducted to better understand trips of all modes to, from, and within D4:



The key findings of this analysis were that 1) the single biggest vehicle trip market is between D4 and San Mateo County, 2) that there are roughly 17,000 daily drive alone trips that occur within D4 and low transit use (4%) within the district, and 3) that over 20,000 drive alone trips occur between D4 and Richmond and Inner Sunset.

Effective period: N/A

Relevant Goals:

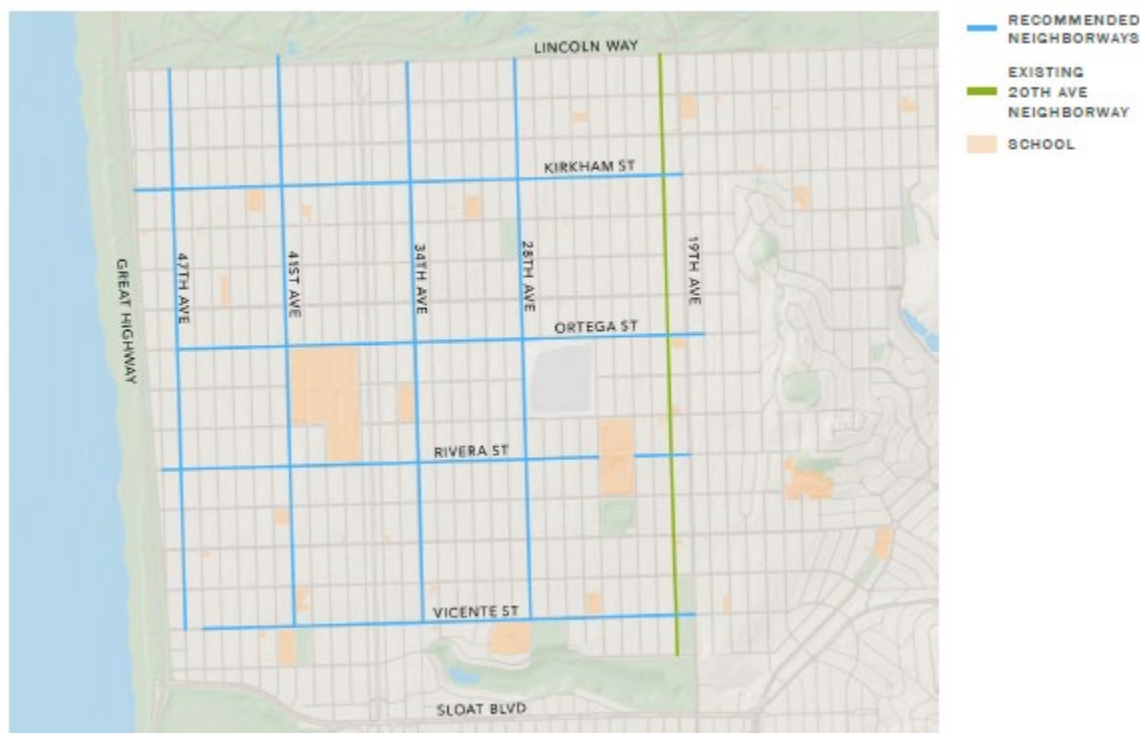
Relevant Projects: Due to the high volume of trips that occur within the district, the study's recommendations focused on making improvements walking, biking, and transit infrastructure to mitigate and offset these trips, including but not limited to:

- **Safety Improvements on Lincoln Way** – traffic calming measures and crosswalk improvements



- **Improving Access and Safety on Key Commercial Corridors** – new curbside general loading zones, painted crosswalks in key commercial corridors, and a community shuttle to fill in transit gaps and connect people to major transit hubs
- **D4 Family Neighborway Network** – Residential streets are designed to prioritize people of all ages and abilities, and should feel quiet, safe, and inviting. At least three design treatments can be applied to ensure this remains the case: 1) speed reduction through humps, tables, or raised crosswalks, 2) marking spaces for bicycles through bike lanes or sharrows, and 3) managing vehicle volumes using signs or physical barriers.

Figure 3-8. Recommended Neighborway Network



Relevant Programs:

Relevant Policies:

Implementation/Program: The study was funded through the Neighborhood Program, which was established to fund community-based efforts in San Francisco neighborhoods, especially in underserved neighborhoods and areas with vulnerable populations. The program is funded through San Francisco's half-cent sales tax for transportation funds.

Missed opportunities:



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SFMTA Comprehensive Bicycle Crash Analysis

Object name: SFMTA Comprehensive Bicycle Crash Analysis

Object owner: SFMTA

Type of object: Analysis

Relation to other objects:

Approved/adopted date: August 2018

Approved/adopted authority:

Abstract: The Comprehensive Bicycle Crash Analysis was a consultant-led analysis project to analyze bicycle volumes, collision locations, and high-risk street sections. The goal of the analysis was to inform investment strategies not just for High Injury Network locations informed by historical collisions, but also proactive efforts in areas that are likely to see bicycle collisions due to street configuration of volume of use. Under 4 investment scenarios, the analysis identified “reactive” and “proactive” investment areas as well as appropriate countermeasures to mitigate risks.

Effective period: N/A

Relevant Goals: Support Vision Zero and SFMTA Strategic Plan goals by proactively identifying areas for investment and appropriate countermeasures to maximize safety outcomes.

Relevant Projects:

Relevant Programs:

Relevant Policies:

Implementation/Program:

Missed opportunities: Unclear to what degree the analytical outcomes from this study were utilized in the ongoing workplan of Livable Streets Subdivision.



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Bicycle Wayfinding Strategy / Plan

Object name: Bicycle Wayfinding Strategy/Plan

Object owner: SFMTA

Type of object: Strategy document

Relation to other objects:

Approved/adopted date: This document was not formally adopted, however contains relevant research and information to active transportation planning efforts.

Approved/adopted authority:

Abstract: The purpose of the Bicycle Wayfinding Strategy is to provide appropriate background, best practice research, design recommendations and preliminary deployment framework in order to implement a new city-wide bicycle wayfinding system in San Francisco.

Traditional bicycle wayfinding consists of signing or markings to guide bicyclists to their destinations along preferred bicycle routes. Combined with bicycle infrastructure improvements that make bicycling trips safer, more efficient, and more comfortable, the Bicycle Wayfinding Strategy will aim to increase the number of trips made by bicycle.

Effective period: N/A

Relevant Goals:

- Improve the feeling of safety, confidence, and comfort for bicyclists.
- Encourage and increase bicycling in San Francisco by improving the connectivity and ability to navigate the bikeway network.
- Design and implement a cohesive and consistent bicycle wayfinding system and program for the City and County of San Francisco.
- Provide guidance to the deployment of a network of signs that will allow bicyclists of all abilities to make real-time decisions about route choice.
- Integrate information about bicycling with the City's existing and planned transportation system to facilitate a multi-modal network.

Relevant Projects: SFMTA Bike Strategy Report

Relevant Programs:

Relevant Policies:

Implementation/Program:

Missed opportunities:



Active Communities Plan



SFMTA Plans and Policies

2-Year Vision Zero Action Strategy

Object name: 2021 Vision Zero SF Action Strategy

Object owner: Vision Zero San Francisco

Type of object: Strategic Plan

Relation to other objects: Vision Zero San Francisco

Approved/adopted date: 2021

Approved/adopted authority: N/A

Abstract: This Vision Zero Action Strategy identifies the significant shifts needed to advance Vision Zero and outlines the actions Vision Zero San Francisco will take to end traffic deaths in San Francisco. Dating back to 2014, this is now the fourth Action Strategy. The City and County of San Francisco have increased their commitment to quick-build projects significantly and are aiming to improve every street in the high injury network with safety measures through quick-build projects and corridor-wide safety improvements by 2024.

75% of San Francisco’s severe and fatal traffic injuries occur on just 13% of its streets. 31% of city streets are in “communities of concern”, and 50% of the high injury network are in those same communities. Achieving zero traffic fatalities in San Francisco will require political will and public support for ambitious and transformative policies to significantly reduce crashes through 1) major street redesign, 2) speed safety cameras, 3) mode shift and pricing tools, 4) advanced vehicle technologies, and 5) increased housing density.

Effective period: 2021 - 2024

Relevant Goals: Equity is a core principle of Vision Zero because the transportation system should be safe for all road users, for all modes, in all communities and for people of all incomes, races and ethnicities, languages, ages, abilities, and housing status, particularly due to disproportionate health impacts of decades of structural and institutional racism.

Relevant Projects: 1) apply the quick-build toolkit to the high-injury network, 2) develop an active transportation network, and 3) advance a comprehensive speed management plan.

Relevant Programs:

Relevant Policies: Vision Zero

Implementation/Program:

Missed opportunities:



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SFMTA Strategic Plan

Object name: SFMTA Strategic Plan

Object owner: SFMTA

Type of object: Strategic Plan ([Story Map](#) and [PDF](#))

Relation to other objects: State and Regional Policies: Sustainable Communities and Climate Protection Act, Plan Bay Area 2050, San Francisco Transportation Plan (SFTP) 2050; City and County Policies and Programs: Section 8A of the City Charter, Transportation Code, Transit First Policy, Environment Code, 2020 Climate Action Plan, Vision Zero Action Strategy, ConnectSF; Agency Planning Efforts: Muni Service Equity Policy, SFMTA Racial Equity Action Plan (RE AP), Transportation 2050, Asset Management and State of Good Repair, SFMTA's 20-Year Capital Plan, 10-Year Operating Financial Plan, Capital Improvement Plan (CIP), two-year operating and capital budgets, staff performance plans.

Approved/adopted date: November 23, 2021

Approved/adopted authority: SFMTA Board of Directors

Abstract: Visions, values, metrics, goals, and initiatives which will be incorporated into the everyday work of agency staff.

Effective period: 2021 - 2023

Relevant Goals: "Prioritizes transit, walking and bicycling" page 11. Environmental Stewardship value: "Implementation of the Transit First Policy to make getting around by Muni, walking and biking easy" metrics: "average weekday bicycle trips" and "Percent of Shared Mobility Neighborhood coverage" page 17. Goal 6: "Eliminate pollution and greenhouse gas emissions by increasing use of transit, walking, and bicycling. Promote mode shift and use public spaces efficiently to support the city's climate action efforts and align land use, housing, and transportation policies" page 21 and 27. Goal 4: "Make streets safer for everyone. Eliminate traffic deaths, reduce severe injuries, and ensure marginalized and vulnerable populations can move freely without fear of harassment, violence or injury on all modes of travel" page 25.

Relevant Projects:

Relevant Programs:

Relevant Policies: References existing policies like Vision Zero and Transit First Policy, but no new policies were created by this plan.

Implementation/Program: The plan describes metrics for the values and goals. Relevant metrics include: transportation sector carbon footprint, average weekday bicycle trips, percent of coverage of bus stops near ¼ mile walking distance, percent of shared mobility neighborhood coverage, transportation mode share and percentage of low-carbon trips (page 17).



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Missed opportunities: The plan does not include measurable goals. The metrics are quantifiable, but the strategic plan does not define what percentages or average weekday bicycle trips they are hoping to meet.



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Curb Management Strategy

Object name: SFMTA Curb Management Strategy

Object owner: SFMTA

Type of object: Best practices for planning, designing, and policymaking for San Francisco curbs.

Relation to other objects:

Approved/adopted date: February 2020

Approved/adopted authority: MTA Board of Directors

Abstract: The curb is a valuable and finite resource with many users—some of them competing, and some of them complementary. This strategy defines five key curb functions and how those functions and users are prioritized in different land use contexts to reflect how curb needs vary across the city.

With curb space in high demand, curb functions that provide the highest level of access for a given amount of space along the curb should be prioritized. Throughout the most active and dense parts of San Francisco access for people and access for goods are given top priority while private car parking is lowest priority. By doing so, the curb can facilitate the movement of more people and goods.

The foundation of the strategy is the hierarchy and prioritization of curb functions to provide the highest level of access for a given amount of space. This strategy defined five (5) key curb functions – and how those functions and users are prioritized in six (6) different land use contexts (low-density residential; mid- to high-density residential; neighborhood commercial; downtown; major attractor; and industrial/production, distribution, and repair) – to reflect how curb needs vary across the city:

1. **Access for People** – active space that prioritizes transit boardings, and accommodates pick-ups/drop-offs, and shared mobility services
2. **Access for Goods** – space for deliveries of different types and sizes, which are typically used for short periods of time
3. **Public Spaces and Services** – curb designated for use by people and public services
4. **Storage for Vehicles** – space intended to be occupied by vehicles for extended periods, such that no other uses can access the space
5. **Movement** – curb lane is used for the through-movement of motorized and non-motorized means of transportation, such that the curb lane is unavailable for other functions

After first allocating curb space for the highest priority functions, remaining curb space will be allocated to the lower priority functions. Just because something is a lower priority doesn't mean it won't have any space allocated to it, just that the needs of higher priorities are met first. In fact, because the higher priorities tend to be more space-efficient, there will usually be a significant amount of space remaining for lower priorities.

Effective period: Effective until superseded



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Relevant Goals: The Curb Management Strategy has six objectives

1. Advance a Holistic Planning Approach	2. Accommodate growing loading needs	3. Increase compliance with parking and loading regulations
4. Improve access to up-to-date data	5. Rationalize policies towards private users of curbspace	6. Promote equity and accessibility

Relevant Projects: Valencia Bikeway Pilot, Geary BRT

Relevant Programs: Color Curb Program, Shared Spaces, Demand Responsive Pricing, Residential Parking Permit

Relevant Policies: Transit first, Vision Zero, Climate Action Strategy

Implementation/Program:

Missed opportunities:



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Modal Planning Framework

Object name: Modal Planning Framework

Object owner: SFMTA

Type of object: Planning tool / database / map

Relation to other objects: Product of ConnectSF, the citywide long-range transportation plan

Approved/adopted date: Not yet adopted

Approved/adopted authority: N/A

Abstract: The Modal Planning Framework is a GIS-based planning tool to be utilized by city staff. It assembles many key pieces of data about San Francisco's streets in one place, assisting planners and decision makers as they seek to resolve difficult tradeoffs with San Francisco's limited right-of-way in their work. It does not determine policy or assume any outcomes, but it will be helpful in determining them.

Effective period: Effective until updated

Relevant Goals: To provide planners and decision-makers with ample relevant spatial data to make appropriate decisions about street and network design

Relevant Projects: Applicable to almost any transportation project as a tool for decision-making

Relevant Programs: ConnectSF

Relevant Policies: Applicable to all transportation policies as a tool for decision-making

Implementation/Program: The Modal Planning Framework is a tool, not something to be implemented

Missed opportunities: Could have been more robustly integrated with data collection. Updates could be an intensive process.



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2023 SFMTA Climate Roadmap to a Healthier City

Object name: 2023 SFMTA Climate Roadmap to a Healthier City

Object owner: SFMTA

Type of object: Strategic Plan

Relation to other objects: Builds upon the 2021 San Francisco Climate Action Plan, Supersedes the 2017 San Francisco Transportation Sector Climate Action Strategy

Approved/adopted date: Scheduled for late Fall 2023

Approved/adopted authority: SFMTA Board of Directors

Abstract: To align with the 2021 San Francisco Climate Action Plan and urgently advance priority actions, the SFMTA developed the 2023 Climate Roadmap to a Healthier City with a shorter time horizon (5-7 years) that will establish the priority actions the agency must pursue in order to reach citywide climate goals. The Active Transportation Strategy includes developing the Active Communities Plan, establishing programs to fund more bike parking, subsidies for electric bikes, engagement with communities, establishing mobility hubs, expanding the Slow Streets network, and expanding the protected bikeway network.

Effective period: effective 5-7 years or until superseded

Relevant Goals: 80% of trips taken by low-carbon modes by 2030; 25% of all vehicles registered in San Francisco are electric by 2030 and 100% are electric by 2040; racial, social, and economic equity.

Relevant Projects: 2022 San Francisco Climate Action Plan

Relevant Programs: ConnectSF, Slow Streets Program

New programs proposed (all building off the Transportation and Land Use actions of the 2021 San Francisco Climate Action Plan):

- Proposes to “Establish and fund a program that expands access to bicycling via more bike parking options (especially for people living in multifamily housing), subsidies for electric bikes for low-income residents, and engagement with communities to understand their active transportation needs and deliver projects that suit them.”
- Proposes to “Establish a mobility hubs pilot and create a citywide network of mobility hubs where people can access active transportation options at major transit stops and destinations.
- Proposes to “Convert public and private parking lots, parking spaces, garages, streets, and publicly-owned land to more productive uses where possible, such as housing and car-free roads in parks.”



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- Proposes to “Launch a public awareness campaign, including messaging tailored to communities, with the goal of educating residents about the health, economic, and environmental benefits of transit, active transportation, and electric vehicles.”
- Proposes to “Integrate climate action and health into SFMTA's community engagement to understand needs, barriers, and opportunities to taking low-carbon trips.”

Relevant Policies: Transit-first Policy; Prop A in 2007, which amended the city charter to require the SFMTA to update its strategy on how it will reduce greenhouse gas emissions

Implementation/Program: The SFMTA will integrate the actions of the 2022 SFMTA Climate Roadmap to a Healthier City into its 20-year Capital Plan and 5-Year Capital Improvement Program so that it can implement the actions.

Missed opportunities:



Active Communities Plan



SFMTA Programming

Safe Routes to School Program

Object name: Safe Routes to School Program

Object owner: SFMTA

Type of object: Program

Relation to other objects: Coordination between SFMTA teams handling Crossing Guard Program, Muni Transit Ambassador Program (MTAP), school tripper buses, infrastructure safety improvements near school sites, and non-infrastructure programming. Partnership with San Francisco Unified School District (SFUSD) Transportation Department.

Approved/adopted date: Operating in SF from 2009, administered by SFMTA from 2019. Next round of funding approved May 2022 for use starting December 2022

Approved/adopted authority:

Abstract: Safe Routes to School (SRTS) was created to help to make walking and bicycling to school safer and more accessible for children, including those with disabilities, and to increase the number of children who choose to walk, bicycle, take public transit, or ride in parental carpools. The San Francisco Safe Routes to School (SF-SRTS) program includes engineering, transportation services, education, encouragement and experiential programming, environmental safety, and transportation services delivered by City agencies, the school district, and contracted partners.

Effective period: Ongoing

Relevant Goals: By 2030, the program will:

- Reduce single family vehicle trips by 37%: from the current 48% to 30%, SFUSD's adopted transportation goal
- Reduce school-related collisions by 50%: from an annual average of 2 severe and 32 total injury collisions a year

Relevant Projects:

Relevant Programs: SF-SRTS education, encouragement, and experiential programming includes annual walk, bike, and transit events and regular safety trainings, bicycle classes, supervised group walks and bike rides to school and "Park and Walk" events which promote active and low carbon transportation options and reduce white zone congestion.

Relevant Policies: Traffic calming and engineering improvements such as adjusting white zone for student drop-off and pick-up, clarifying right of way, increasing visibility, marking crosswalks, and installing signage are implemented as needed, proactively and on request.



Active Communities Plan



Implementation/Program: 175 Crossing Guards covering 106 public and private schools at 154 intersections throughout the city (as of 7/25/2022). MTAP has 7 Transit Ambassadors and 21 Transit Ambassador Trainees (as of 7/25/2022) riding and monitoring bus lines and schools depending on the need and responding to school community concerns. "School Trippers" are extra afternoon Muni buses on existing lines that begin their route at a school site, pick up students at the end of the school day, then continue along the route as normal providing additional capacity for student-serving routes.

Missed opportunities:



Active Communities Plan



Vision Zero Education Program

Object name: Vision Zero Education Program

Object owner: SFMTA

Type of object: [City resolution](#)

Relation to other objects: [SFMTA Board resolution](#) adopting Vision Zero in 2014

Approved/adopted date: March 2014

Approved/adopted authority: SF Board of Supervisors

Abstract: Resolution urging the Mayor, the Chief of Police, and Director of the Municipal Transportation Agency to adopt a VISION ZERO Three Point Plan to expedite the goals of San Francisco's Pedestrian and Bicycle Strategies and implement an action plan to reduce traffic fatalities to zero in the next ten years through better engineering, education, and enforcement.

Effective period: 2014 – 2024, or until superseded

Relevant Goals: Implement education and outreach strategies to raise awareness and create a culture of traffic safety in support of the citywide goal to eliminate traffic deaths

Relevant Projects: Safe Speeds campaign, Safety —It's Your Turn (Left turns) campaign, It Stops Here (Yielding) campaign, Motorcycle Safety program, 20 MPH outreach, street team outreach

Relevant Programs:

Relevant Policies: Board of Supervisors and SFMTA Board resolutions adopting Vision Zero

Implementation/Program: [Vision Zero Action Strategy](#)

Missed opportunities: N/A



SFMTA Bike Parking Program

Object name: Bicycle Parking: Standards, Guidelines, Recommendations

Object owner: San Francisco Municipal Transportation Agency

Type of object: Guidance Document

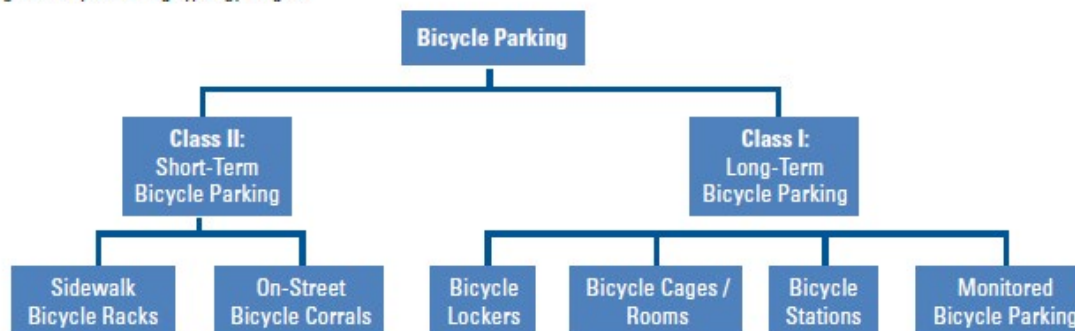
Relation to other objects: N/A

Approved/adopted date: 2015

Approved/adopted authority: SFMTA

Abstract: This guide provides information regarding appropriate and recommended 1) types of bicycle parking (short- and long-term), 2) placement of bicycle parking, 3) installation of bicycle parking, 4) typical locations for installing long-term bicycle parking, and 5) specifications for the most appropriate bicycle parking materials. It also provides guidance on planning and installation of infrastructure to ensure that bicycle parking should be widely available and decentralized, intuitive, low maintenance, and economical.

Figure 1 Bicycle Parking Typology Diagram



Effective period: Ongoing

Relevant Goals:

Relevant Projects:

Relevant Programs:

Relevant Policies: SFMTA Strategic Plan; SFMTA Livable Streets

Implementation/Program:

Missed opportunities:



Active Communities Plan



SFMTA Bikeshare Program and Coordination Agreements

Object name: Bikeshare Program and Coordination Agreements

Object owner: MTC

Type of object: Public Private Contract

Relation to other objects: Basic bikeshare service agreement

Approved/adopted date: 2015

Approved/adopted authority: MTC

Abstract: This agreement sets terms for the public private partnership for bikeshare service. It provides legal definitions of contractual terms, establishes Key Performance Indicators for evaluating service, and assigns fines based on service shortcoming. It also describes the governance structure of the program, the policies and parties that inform and make decisions. It also establishes SF's commitment as a city for providing permit oversight and expansion opportunities.

Effective period: 2017-2027

Relevant Goals: Establish a level of service expectation.

Relevant Projects:

Relevant Programs: The Bikeshare Program

Relevant Policies:

Implementation/Program: The Bikeshare Program

Missed opportunities: This document was unanimously endorsed by the Board of Supervisors, but subsequently, individual stations were challenged when they were advanced through legislation, leaving gaps in the network. Having a binding requirement for delivery would have been useful to reduce political blockers to system development.



Active Communities Plan



SFMTA Scootershare Permit Terms and Conditions

Object name: Scootershare Permit Terms and Conditions

Object owner: Sarah Hellman, Taxi Accessibility Mobility Services

Type of object: Permit

Relation to other objects: Relies on Transportation Code for powered kick scooter parking enforcement.

Approved/adopted date: First year: 2018, most recently renewed: 2021

Approved/adopted authority: SFMTA

Abstract: Scootershare Terms and Conditions lay out the requirements for all scootershare permittees for service operation minimum thresholds, responsibilities, and supplemental program requirements.

Effective period: Yearly, with the potential for 1 year renewal

Relevant Goals: Regulate scootershare operators

Relevant Projects: Scootershare Program

Relevant Programs: Scootershare, Taxi Investigation

Relevant Policies:

Implementation/Program: Streets Bikeshare Team and TAMS Scootershare team.

Missed opportunities:



Active Communities Plan



Vision Zero Quick-Build Program

Object name: Vision Zero Quick-Build Program

Object owner: SFMTA

Type of object: Project Implementation Strategy

Relation to other objects: QBs ARE projects

Approved/adopted date: June 4, 2019

Approved/adopted authority: SFMTA

Abstract: Locations on the City's Vision Zero High-Injury Network where the SFMTA can install reversible and/or adjustable project installations and parking and traffic modifications and significantly shorten the outreach and project approval phase for projects by allowing for a more iterative field-testing of potential design modifications, resulting in expedited implementation of safer roadway conditions.

Effective period: 2019 - present

Relevant Goals: Vision Zero SF 2019 Action Strategy includes a list of strategic actions, including increased use of quick-build treatments to improve safety and help to reduce the number of transportation related fatalities.

Expansion of citywide protected bikeway network.

Relevant Projects: [Vision Zero Quick Build Projects](#)

Relevant Programs: Pedestrian and Bicycle Programs

Relevant Policies: Vision Zero, High Injury Network, Transportation Code, and Climate Action Plan

Implementation/Program: There are about 10 projects/year.

Missed opportunities:



Active Communities Plan



E-bike Agreement and Subsequent Pricing Agreements

Object name: E-bike Agreement and Subsequent Pricing Agreements

Object owner: SFMTA and Lyft/Bay Wheels

Type of object: P-600 contract and signed contracts

Relation to other objects: Inherits KPIs for bikeshare service from Program and Coordination Agreement

Approved/adopted date: January 2020

Approved/adopted authority: SFMTA and Lyft/Bay Wheels

Abstract: These documents provide a resolution settlement to the lawsuit Lyft filed against the city in order to establish exclusive right over dock-less electric bikes. The agreement establishes operational thresholds, minimum fleet size, bike availability, and service requirements for hybrid e-Bikes in parallel and sometimes in tandem with the Bikeshare Program and Coordination agreements. Subsequent pricing agreements approved price adjustments and negotiated various promotion and public benefit agreements within service operations.

Effective period: 2020 – 2024

Relevant Goals: Set pricing with protections for community benefit programs.

Relevant Projects: Bikeshare Program

Relevant Programs:

Relevant Policies:

Implementation/Program:

Missed opportunities:



Active Communities Plan



SFMTA Capital Improvement Program (CIP)

Object name: SFMTA Capital Improvement Program

Object owner: SFMTA

Type of object: Five-Year Funding Plan for SFMTA Projects

Relation to other objects: Builds on SFMTA Strategic Plan and 20 year Capital Plan goals.

Approved/adopted date: April 21, 2020

Approved/adopted authority: SFMTA

Abstract: A fiscally constrained set of projects that the SFMTA plans to between 2021-2025, including 196 projects; representing an investment of \$2.5 billion. These projects are designed to improve the safety, reliability, equity, and efficiency of San Francisco's transportation system for all residents, workers and visitors.

Effective period: 2021-2025

Relevant Goals: The CIP focuses on three primary goals: 1. Vision Zero 2. Transit First 3. State of Good Repair (SGR)

Relevant Projects: The CIP includes numerous bicycle related projects within the Streets section of the CIP.

Relevant Programs:

Relevant Policies: Transit First, Climate Action Plan

Implementation/Program:

Missed opportunities:



Active Communities Plan



Slow Streets Program

Object name: Slow Streets Program

Object owner: SFMTA Livable Streets

Type of object: Program summary/overview

Relation to other objects:

Approved/adopted date: April 2020 (emergency order by Mayor), Approved by SFMTA Board of Directors December 6, 2022

Approved/adopted authority: SFMTA Board of Directors/San Francisco Mayor's Office

Abstract: Slow Streets are safe, comfortable, low-vehicle-traffic routes that prioritize active transportation and community-building. These shared streets are thoughtfully designed and implemented on residential streets to provide safe, comfortable alternatives to driving. They are open to all forms of transportation, including vehicles accessing properties along the corridor, and emphasizing slow and safe speeds to support a diverse mix of uses.

Effective period: 2020-present

Relevant Goals: Create a connected, citywide Active Transportation Network, eliminate deaths and severe injuries related to transportation, and encourage more people to choose low-carbon ways to travel for their daily trips.

Relevant Projects: Sunset Neighborways; Page Street Neighborway, Active Communities Plan

Relevant Programs: [Current list of Program corridors](#)

Relevant Policies: Aligns with Transit First Policy, 2021 Vision Zero Action Strategy (Slow Streets specifically referenced as part of Active Transportation network)

Implementation/Program: The Slow Streets program was introduced in April 2020 as part of the mayor's emergency response to COVID-19. The SFMTA program team has managed the implementation and rollout of four phases of emergency corridors. In August 2021, the SFMTA Board authorized four corridors as post-pandemic/permanent Slow Streets. In 2022, the MTA Board approved an expanded, permanent Slow Streets program.

Missed opportunities: Tighter coordination and planning around permanence (this need was not anticipated due to initial expectations around duration of COVID-19); alongside that, the initial design toolkit was quite limited.



Active Communities Plan



Bicycle Education Program

Object name: Bicycle Education Program

Object owner: SFMTA

Type of object: City funded program

Relation to other objects: TDM Plan, Vision Zero Action Plan

Approved/adopted date: Ongoing

Approved/adopted authority: SFMTA (program), SFCTA (funding)

Abstract: Provide a variety of educational offerings for beginners to intermediate riders to support an increase in ridership through greater confidence and understanding in road rules and safe riding techniques.

Effective period: Ongoing

Relevant Goals:

Relevant Projects:

Relevant Programs: Bicycle encouragement through education.

Relevant Policies:

Implementation/Program: SFBC has operated for over ten years in consultation with SFMTA.

Missed opportunities: Slow Streets integration. Low percent of SF residents participate. High cost to get a higher percentage of participants, but high visibility/impact is likely if this were pursued. Funding is the issue.



Active Communities Plan



Scotershare and Bikeshare Citation Amounts

Object name: Scootershare and Bikeshare Citation Amounts

Object owner: City Attorney/TAMS - Service Investigation Unit

Type of object: Legal code

Relation to other objects: Allows for enforcement of Scootershare Permit and Bikeshare Agreements.

Approved/adopted date: Ongoing

Approved/adopted authority: Board of Supervisors

Abstract: This section of the Transportation Code sets the number of fines for misparked scooters, which are then assessed onto permittees when users fail to lock scooters or mispark them where they block the path of travel.

Effective period: Ongoing

Relevant Goals: Allows financial penalties for misparked scooters specifically to try and compel better ridership and reduce externalities.

Relevant Projects: Bike Parking Program

Relevant Programs: Bikeshare and Scootershare Programs

Relevant Policies:

Implementation/Program:

Missed opportunities: This program fines shared micro-mobility operators for misparking behavior of their users. This mechanism reduces misparking to a budget line for permittees, rather than inducing them to encourage riders to ride/park correctly.



Active Communities Plan



Long Term Bike Parking Business Plan

Object name: Long Term Bike Parking Business Plan

Object owner: SFMTA

Type of object: Geospatial Financial Sustainability Plan

Relation to other objects: Provides a planning rationale for more Long-Term Bike Parking facilities

Approved/adopted date: N/A

Approved/adopted authority: SFMTA

Abstract: This plan identified where bike valet or other long-term bike parking facilities would be most beneficial, along with how they could work. The two major locations identified included SOMA, near 5th and Mission, and West Portal. Business models could be based on automation or private business revenue service (e.g. café or bike repair) in conjunction with a bike valet facility.

Effective period: Ongoing

Relevant Goals: Develop long term bike parking options at major transit hubs.

Relevant Projects: Bike Parking Program

Relevant Programs: Mobility Hub Development

Relevant Policies:

Implementation/Program:

Missed opportunities: This program could have incorporated more shared mobility ideas and developed more of a decentralized model of operation as mobility hubs, but it arrived before bikeshare and scootershare became larger more ambitious programs.



Active Communities Plan



SFMTA Major Development Mitigation Plans Mission Bay Development

Object name: Mission Bay Development

Object owner: OCII

Type of object: Development

Relation to other objects:

Approved/adopted date: October 26, 1998

Approved/adopted authority: San Francisco Board of Supervisors

Abstract: A projected \$700 million in public infrastructure in Mission Bay. San Francisco's new Mission Bay development covers 303 acres of land between the San Francisco Bay and Interstate-280. 6,000 housing units, 4.4 million sq. ft. of office/life science/biotechnology commercial space, a new UCSF research campus, A state-of-the art UCSF hospital complex, 500,000 sq. ft. of city and neighborhood-serving retail space, A 500-room hotel and more.

Effective period:

Relevant Goals:

Relevant Projects: Improved bike network throughout the neighborhood.

Relevant Programs:

Relevant Policies:

Implementation/Program:

Missed opportunities:



Active Communities Plan



Candlestick Park & Hunters Point Shipyard Development

Object name: Candlestick Shipyard Development

Object owner: Office of Community Investment and Infrastructure

Type of object: Development

Relation to other objects:

Approved/adopted date: June 15, 2010

Approved/adopted authority: San Francisco Board of Supervisors

Abstract: A projected 20-year term Development Agreement between the City and Fivepoint aka Hunters Point Shipyard/Candlestick Point Project. The Project proposes a comprehensive, transit-oriented redevelopment of the Hunters Point Shipyard and Candlestick Point neighborhoods. The Project includes 10,672 new housing units, commercial, research/development space, regional retail center, entertainment venues, hotel, arena/or public performance site, marina, and over 300 acres of new parks. The Project is supported by extensive investments in infrastructure, including a multi-modal transportation system.

Effective period: 2010-present (currently inactive)

Relevant Goals: Improve the bicycle network in the development area and connect to existing network

Relevant Projects: New and improved bicycle facilities throughout project area, connecting to existing network, as described in Transportation Plan

Relevant Programs: TDM Plan for residents and employees

Relevant Policies:

Implementation/Program:

Missed opportunities:



Active Communities Plan



Parkmerced Development

Object name: Parkmerced Development

Object owner: OEWD

Type of object: Development

Relation to other objects:

Approved/adopted date: 2011

Approved/adopted authority: San Francisco Board of Supervisors

Abstract: A projected \$200M 30-year term Development Agreement between the City and Parkmerced Project. The agreement is projected to generate \$82 million in transportation impact fees. The project will increase residential density, provide neighborhood commercial and retail services, reconfigure the street network and public realm, improve and enhance the open space amenities, modify, and extend existing neighborhood transit facilities, and improved utilities. At build-out, the Project will retain approximately half of the existing 3,221 apartments as part of the final Project Site. The remaining half of the existing units will be demolished over time and replaced with rent-controlled replacement units, and approximately 5,679 net new residential units will be added. In total, upon completion, there will be up to 8,900 units. The project will also develop approximately 290,000 square feet of mixed-use commercial development with accessory parking and loading.

The Parkmerced project includes comprehensive redesign, redevelopment, and improvement of a 152-acre site with new residential buildings, retail uses, parks, streets, and other amenities, transforming the existing Parkmerced housing development into a 21st-century neighborhood. The project includes one-to-one replacement of 1,500+ rent-controlled units.

Effective period: Under construction – 30+ years

Relevant Goals:

Relevant Projects: New bicycle facilities throughout the neighborhood, connecting to the existing bike network.

Relevant Programs: Transportation Demand Management - Safe and secure e-bike parking within each building with supplemental on-street parking. Efforts are to be made to contract bike shop tenants and to have bikeshare companies install stations.

Relevant Policies:

Implementation/Program:

Missed opportunities:



Active Communities Plan



Schlage Lock Development

Object name: Schlage Lock

Object owner: Office of Economic and Workforce Development

Type of object: Development

Relation to other objects:

Approved/adopted date: July 22, 2014

Approved/adopted authority: San Francisco Board of Supervisors

Abstract: A projected \$10M 15-year term Development Agreement between the City and Visitacion Development, LLC, aka Schlage Lock Development. The agreement is projected to generate \$4 million in transportation impact fees and SFMTA has pledged to contribute \$1.5 million to the project. The project includes up to 1,679 new residential units, approximately 46,700 square feet of new retail space, and the rehabilitation of an approximately 15,000-square-foot historic office building as a community-serving use and 15% affordable housing requirement.

The Schlage Lock manufacturing site will be transformed from vacant land into a livable, mixed-use urban community; a place designed to encourage walking, biking, and the use of mass transit; and a network of well-designed open spaces and public amenities that blend into the urban fabric of the community.

Effective period: 15+ years

Relevant Goals:

Relevant Projects: New/improved bike facilities throughout the site.

Relevant Programs: Transportation Demand Management program – bike support facilities, bike sales/rentals, and bike wayfinding.

Relevant Policies:

Implementation/Program:

Missed opportunities:



Active Communities Plan



Chase Center Development

Object name: Chase Center Development

Object owner: Office of Community Investment and Infrastructure

Type of object: Development

Relation to other objects:

Approved/adopted date: 2016

Approved/adopted authority:

Abstract: The development program for Mission Bay South Blocks 29-32 includes: Chase Event Center (basketball seating capacity of 18,064), 25,000 square foot GSW office space, 580,000 square feet of general office buildings, 125,000 square feet of retail and restaurant uses, 950 parking stalls in on-site garage.

Effective period:

Relevant Goals: Promote active transportation modes with bikeshare and bike valet.

Relevant Projects:

Relevant Programs: Strategies to enhance non-auto modes/Transportation Demand Management: bike valet and promotions incentivizing bike use

Relevant Policies:

Implementation/Program:

Missed opportunities:



Active Communities Plan



Sunnydale Hope SF Development

Object name: Sunnydale Hope SF

Object owner: HOPE SF

Type of object:

Relation to other objects:

Approved/adopted date: 2017

Approved/adopted authority:

Abstract: The proposed project would demolish the existing Sunnydale public housing complexes and construct replacement housing, new market-rate housing, infrastructure, open space, and community amenities. The proposed Master Plan would result in demolition of 785 existing residential units, and the development of 1,770 residential units, 1,441 off-street parking spaces, 50,00 square feet of recreation and education facilities, 16,000 sq. ft. of retail, 16,000 sq. ft. of youth and senior services, and new infrastructure including a new street network

Effective period:

Relevant Goals:

Relevant Projects: Improved bike facilities throughout the site

Relevant Programs:

Relevant Policies:

Implementation/Program:

Missed opportunities:



Active Communities Plan



SFMTA Community Based Transportation Plans Western Addition Community Based Transportation Plan

Object name: [Western Addition CBTP](#)

Object owner: SFMTA

Type of object: Community Based Transportation Plan (CBTP)

Relation to other objects:

Approved/adopted date: April 2017

Approved/adopted authority: SFMTA Board adoption

Abstract: The Western Addition CBTP led a 2-year community planning process with local partners to identify and develop community-supported infrastructure projects in the Western Addition neighborhood. Projects are split into near-term, mid-term, and long-term projects, totaling approximately \$12.5 million worth of projects. The project list includes proposed bike lanes on Turk Street and Golden Gate Ave.

Effective period: N/A

Relevant Goals: Build trust with the community, acknowledging past harm and developing projects that reflect community needs and values. The goal of reducing future community opposition to active transportation projects.

Relevant Projects: Bike lane projects on Turk Street and Golden Gate Avenue. The plan also recommends a future process to design bike facilities on McAllister Street.

Relevant Programs:

Relevant Policies:

Implementation/Program:

Missed opportunities: Due to staffing gaps in the hand-off between plan adoption and implementation, many of the projects were put on hold and/or received substantial community opposition when reintroduced.



Active Communities Plan



2020 Bayview Community Based Transportation Plan

Object name: [Bayview CBTP](#)

Object owner: SFMTA

Type of object: Community-Based Transportation Plan

Relation to other objects:

Approved/adopted date: February 2020

Approved/adopted authority: SFMTA Board adoption

Abstract: The Bayview CBTP identifies \$8.5 million worth of transportation projects identified and prioritized by the Bayview-Hunters Point Community. The plan also identifies a broad range of policy recommendations to directly acknowledge, and address, transportation challenges and vulnerabilities experienced by the community.

Effective period: N/A

Relevant Goals: Build trust with the community, acknowledging past harm and developing projects that reflect community needs and values. The goal of reducing future community opposition to active transportation projects.

Relevant Projects: Programmed \$3.63 million of capital funds for infrastructure. Led to planning and implementation of bikeway projects Hunters Point Blvd Quick Build, Evans Ave Quick Build, and Bayshore Blvd Quick Build. Outstanding \$15 million ATP grant application to implement multi-modal community corridor in parallel to 3rd Street on Keith St, Lane St, and Mendell St.

Relevant Programs: 2022 ATP grant application in Bayview-Hunters Point includes bicycle education programming.

Relevant Policies: Policy recommendation in the plan to support and partner with local organizations conducting culturally relevant bike programming, and to conduct bike-specific planning efforts in Bayview-Hunters Point to identify and overcome cultural, social, and policy barriers to bicycling.

Implementation/Program: Four Quick Build projects either completed or in the process as of Plan Review; \$3.63 million of capital funding programmed towards project implementation; pending ATP grant application for \$15 million project including bike route improvements and protected bike lane.

Missed opportunities:



Active Communities Plan



Vis Valley & Portola Community Based Transportation Plan

Object name: [Vis Valley & Portola CBTP](#)

Object owner: SFMTA

Type of object: Community Based Transportation Plan

Relation to other objects:

Approved/adopted date: Anticipated adoption March 2023

Approved/adopted authority: SFMTA Board adoption

Abstract: The Vis Valley & Portola CBTP is a 2-year community-led planning process to develop projects in the two southeast communities of Visitacion Valley and Portola. The plan is in progress as of this Plan Review, with anticipated adoption in March of 2023. The Plan will include recommended bike network projects in both communities.

Effective period: N/A

Relevant Goals: Build trust with the community, acknowledging past harm and developing projects that reflect community needs and values. The goal of reducing future community opposition to active transportation projects.

Relevant Projects: Likely bike network projects on Mansell Street, San Bruno Avenue, Visitacion Avenue, and Sunnydale Avenue. Potential for additional projects before plan adoption. Coordinates with the Recreation and Parks Department Visitacion Avenue protected bikeway project and Mercy Housing protected bikeway project on Sunnydale Avenue within the HOPESF housing site.

Relevant Programs:

Relevant Policies:

Implementation/Program: Following plan adoption, will seek grant funding through Caltrans Active Transportation Program as well as programming funding through the SFMTA Capital Improvement Program (CIP).

Missed opportunities:



Active Communities Plan



Multi-Agency Citywide Planning
Transportation Demand Management Plan

Object name: [SF Transportation Demand Management Plan](#)

Object owner: SFMTA, SFE, SFCTA, Planning

Type of object: Plan

Relation to other objects: Ties to SFMTA Strategic Plan, Transportation Code, and SF Development TDM

Approved/adopted date: 2017

Approved/adopted authority: SFMTA Board / SFCTA Board (Accepted by vote, not adopted)

Abstract: This Transportation Demand Management (TDM) Plan, based on the 2014 Interagency Transportation Demand Management Strategy, outlines the policies, projects, and programs the City and County of San Francisco will employ as part of a comprehensive effort to ensure access and mobility for all. This work mainly engages the efforts of four key partner agencies: SFMTA, SFCTA, SF Planning, and SF Environment.

Effective period: 2017-2020 (continued as a document due to work continuing to be relevant/COVID)

Relevant Goals: Strategy 6: Develop visitor-oriented and event-related TDM services to facilitate and encourage visitors' understanding and use of sustainable options when in San Francisco.

Strategy 7: Develop programs for employers and residential communities to ensure residents/employees are fully aware of their transportation options.

Strategy 8: Strengthen partnerships with schools to enhance school and family-focused programming.

Strategy 10: Facilitate transportation equity through targeted provision of education and encouragement for minority, low-income, disabled, and senior populations to take transit, walk, bike, and use rideshare or carshare.

Strategy 11: Create/formalize active transportation (walking and bicycling) encouragement programs.

Relevant Projects:

Relevant Programs:

- Implement neighborhood-specific TDM programs that help residents know and understand how to navigate the travel options available in their community
- Exclusively for participating companies and office locations, create customized programs, including marketing materials including commute planners, brochures, posters, and resource guides.



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- Provide outreach and information to companies and their employees about commuting options and benefit information.
- Help companies evaluate options for bikeshare corporate membership and station sponsorship.
- Help companies gain national recognition as Bike Friendly Businesses.
- Work with K-12 schools to promote and to coordinate TDM requirements and transportation options for schools.
- Implement a Safe Routes to School program for San Francisco public schools.
- Make data about bicycle routes, transit routes and operations, and parking and taxis publicly available, so third parties can use the data to produce useful tools and applications.
- Work with Faith communities to develop supportive TDM programs to support better multimodal access to worship.
- Create a plan for gaining an understanding of the unique transportation needs and ways to serve a variety of socioeconomic and demographic groups in San Francisco, including those traveling to/from the city
- Investigate the feasibility of providing free bikeshare memberships to qualifying clients of San Francisco social service agencies
- Provide ongoing outreach, education, and encouragement for all forms of transit, to target populations to reduce the cost of and facilitate the use of transit and bikeshare.
- Integrate the provision of information about the transportation choices available to residents of low-income developments into their site management practices.
- Support and promote Vision Zero pedestrian and bicycle safety promotion efforts.
- Develop comprehensive, long-term programs that encourage people to bicycle and walk more.
- Support the expansion of bicycle sharing and bike parking; provide recommendations and input on outreach materials and the strategic direction of the programs
- Provide and measure the impact of bike amenities, such as Bike Fixit Stations and permanent air pumps, throughout the city, concentrating on transit hubs, secondary schools, and retail business.
- Coordinate outreach and education around bicycle and pedestrian network upgrades
- Strategically market transit service and the bicycle network to provide riders with multiple options on the overall system.

Relevant Policies: Review the Commuter Benefits Ordinance and consider amendments.

Implementation/Program: SFCTA Prop K 5-YPP includes a number of these programs

Missed opportunities:



Active Communities Plan



2021 San Francisco Climate Action Plan

Object name: 2021 San Francisco Climate Action Plan

Object owner: SF Environment/Mayor's Office

Type of object: Strategic Plan

Relation to other objects: Supersedes the 2013 San Francisco Climate Action Plan

Approved/adopted date: December 2021

Approved/adopted authority: Mayor's Office

Abstract: The 2021 San Francisco Climate Action Plan offers a detailed set of strategies and actions, including transportation and land use, to achieve net-zero emissions by 2040 while addressing racial and social equity, public health, economic recovery, and community resilience.

Effective period: Effective until superseded

Relevant Goals: Net-zero emissions by 2040; 80% of trips taken by low-carbon modes by 2030; 25% of all vehicles registered in San Francisco are electric by 2030 and 100% are electric by 2040; racial, social, and economic equity.

Relevant Projects: 2022 SFMTA Climate Roadmap to a Healthier City

Relevant Programs: ConnectSF and Slow Streets Program

New programs proposed:

- "Expand community programs and partnerships to make biking more accessible via safety and maintenance classes, community parking, and subsidies for electric bikes for low-income residents."
- "Establish and utilize design guidelines to improve connectivity and access to active transportation options at major transit stops" (ie, Mobility Hubs).
- "Encourage employers to further reduce auto commutes through incentives such as transit benefits and universal passes, e-bike incentives, active transportation support, telework policies, and carpool programs" (ie, Expand San Francisco's Transportation Demand Management Programs to also include e-bike incentives).
- "By 2023, launch a public awareness campaign, including messaging tailored to specific communities, with the goal of educating residents about the health, economic, and environmental benefits of transit, active transportation, and electric vehicles."
- "By 2024, launch a pilot to advance the use of ZEVs, e-bikes, and other low-carbon modes for door-to-door goods and meal delivery services."
- "Design by 2023 and launch by 2024 a pilot project to test the use of accessible bicycles, e-bicycles, and e-scooters for commuting, as well as recreation."



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Relevant Policies: Transit-first Policy

Implementation/Program: The San Francisco Department of the Environment works with other city departments to implement the Climate Action Plan.

Missed opportunities: The city intended the Climate Action Plan to be visionary, so it has not been fully funded and will require political will to implement the actions.



Active Communities Plan



2022 ConnectSF Active Transportation Study

Object name: [Active Transportation Study \(ATS\) Final Report](#)

Object owner: City Planning Department

Type of object: Long-range planning document

Relation to other objects: Subset to the Streets & Freeways Study for ConnectSF; ConnectSF acts as a long-range planning & prioritization exercise to inform the update of the Transportation Element of the General Plan.

Approved/adopted date: Report finalized, May of 2022

Approved/adopted authority: Approved by the Deputies of ConnectSF, a multi-agency collaboration between SFMTA, SFCTA, and the City Planning Department

Abstract: The ATS Final Report seeks to establish a long-range prioritized active transportation network with a target date of 2050. The network established in the ATS is meant to represent the scale of effort, and the corridors needing prioritization, for the City to achieve its various policy goals by 2050. The ATS doesn't represent a fully realized citywide network, but instead identifies the highest-priority corridors for transformation and assigns "typologies" of bike network infrastructure based on demographic & mode data across different sections of the city. The ATS Final Report also includes an orders-of-magnitude cost estimate for network implementation.

Effective period: The ATS-recommended network will be included in the Transportation Element. Once completed, the Transportation Element is anticipated to be in place for 20 years before going through another update.

Relevant Goals: Create a framework to achieve SF Climate Action Plan goals. Secondary goals of achieving maximum mode shift, achieving Vision Zero, and using the investment to improve mobility and advance equity for low-income communities.

Relevant Projects: The ATS identifies 90 miles of prioritized "corridors" (1/4 mile buffers) for future investment. The ATS identified network cost at roughly \$250-\$300 million.

Relevant Programs: The "Car Free Streets" typology recommended in the preferred network option further supports ongoing work for the Slow Streets program.

Relevant Policies: Meant to bolster the policies in the Climate Action Plan and Vision Zero. The "Mobility Hubs" typology recommended in the preferred network option further supports micromobility policies and ongoing work from Long-Range Planning on Mobility Hubs.

Implementation/Program: The ATS, integrated into the Transportation Element, is meant to inform future decisions about funding allocation, both through the SFCTA expenditure plan and the SFMTA CIP.

Missed opportunities:



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SFCTA Plans/Programs/Reports Emerging Mobility Evaluation Report

Object name: Emerging Mobility Evaluation Report

Object owner: SFCTA

Type of object: Policy-focused Study

Relation to other objects: [Emerging Mobility Evaluation Report](#) and [Guiding Principles for Emerging Mobility Services and Technologies](#)

Relevant companies – Bike sharing: B-Cycle, Bluegogo, Bay Area Bike Share/Ford GoBike (operated by Motivate), JUMP Bike (operated by Social Bicycles), Limebike, Scoot, Zagster

Approved/adopted date: Published July 2018

Approved/adopted authority: SFCTA Board

Abstract: Provides a framework to evaluate how mobility services (including bikeshare) align with the city's transportation goals.

Effective period: N/A

Relevant Goals: Provide a framework that helps the city ensure that the emerging mobility sector supports the city's guiding principles and improves our transportation system.

Relevant Projects: N/A

Relevant Programs: The report recommends that existing permit programs related to emerging mobility should be harmonized and the emerging mobility permit program should administer a permit fee. According to the report, permit systems for bikeshare have led to this mobility type being more aligned with the Guiding Principles.

Relevant Policies: The report recommends that opportunities relating to the emerging mobility sector should be evaluated using these 10 principles; Safety, Transit, Equitable Access, Disabled Access, Sustainability, Congestion, Accountability, Labor, Financial Impact, and Collaboration. Additionally, there is a recommendation to develop an RFP based on the results of the report. The RFP could encourage emerging mobility companies and the city to partner and pilot innovative programs that continue existing success where both the city and the companies align and improve outcomes where there is misalignment.

Implementation/Program: Report should be considered as the city considers new permits, regulations, or relations with mobility providers.

Missed opportunities:



Active Communities Plan



Proposition K Expenditure Plan & 5-Year Prioritization Program (5-YPP)

Object name: [Prop K 2019 5-Year Prioritization Programs](#)

Object owner: SFCTA

Type of object: Program expenditure plan

Relation to other objects: Funding source for future projects recommended by SFMTA Active Communities Plan.

Approved/adopted date: November 27, 2018

Approved/adopted authority: SFCTA Board

Abstract: Proposition K is a half-cent sales tax passed by the voters to fund transportation projects in San Francisco. Relevant parts of the Prop K Expenditure, include EP37 (Pedestrian and Bicycle Facility Maintenance), EP39 (Bicycle Circulation and Safety), EP 40 (Pedestrian Circulation and Safety), which make available funding to projects improving pedestrian and cyclist safety and viability. Funding is made available to bicycle facility maintenance, including that of bike boxes, green lanes, delineators, paths, storage, and outreach, as well as to projects that make cycling a more viable mode, as measured by bicycle counters and safety metrics, with priority given to projects which make safety improvements in Equity Priority Communities and on the Vision Zero High Injury Network. EP37, EP39, and EP40 are funded at \$19.1M, \$56.0M, and \$52.0M respectively.

Effective period: FY2003/04-2033/34 (FY2019/20-2023/24 current five-year programming period)

Relevant Goals: To improve the safety and viability of cycling as a mode in San Francisco. To reduce collisions/trip metrics and target projects in Equity Priority Communities and the High Injury Network.

Relevant Projects: Market St cycling lanes, Bicycle Report Card, bicycle wayfinding, Valencia St Bikeway Implementation Plan

Relevant Programs: EP37 (Pedestrian and Bicycle Facility Maintenance), EP39 (Bicycle Circulation and Safety), EP 40 (Pedestrian Circulation and Safety)

Relevant Policies: EP39 requires projects to be consistent with the City's Bicycle Plan.

Implementation/Program:

Missed opportunities: Neither EP37 or EP39 make any funds available to lower the cost of cycling.



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2022 Sales Tax Reauthorization and Expenditure Plan

Object name: [2022 Transportation Expenditure Plan \(full Plan\)](#)

Object owner: SFCTA

Type of object: Program expenditure plan

Relation to other objects: Funding source for future projects recommended by SFMTA Active Communities Plan

Approved/adopted date: Approved by voters November 2022

Approved/adopted authority: Put on the ballot by Board of Supervisors – Adopted by voters

Abstract: San Francisco voters extended the city’s half-cent transportation sales tax for 30 years. The 2022 Expenditure Plan outlines how funds will be spent over those 30 years. The 2022 expenditure plan replaces the existing expenditure plan for Proposition K funds.

Effective period: FY2023/24 - FY2053/54

Relevant Goals: Deliver safer, smoother streets, and more reliable transit; support paratransit services for seniors and persons with disabilities; reduce congestion; and improve air quality.

Relevant Projects: “Pedestrian and Bicycle Facilities Maintenance” are allotted \$19 Million in sales tax funds under the Streets and Freeways investment category. “Safer and Complete Streets” are allotted \$187 Million in the same category. Slightly more detailed explanations of eligible projects can be found in the full plan linked above.

Relevant Programs: The 2022 Expenditure Plan includes five categories of investment: Transit Maintenance and Enhancements, Major Transit Projects, Streets and Freeways, Paratransit, and Transportation System Development and Management.

Relevant Policies: N/A

Implementation/Program:

Missed opportunities:



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San Francisco City Policy and Code SF City Charter

Object name: San Francisco City Charter

Object owner: City & County of San Francisco

Type of object: City Charter/Ordinances

Relation to other objects: Part of the larger San Francisco Municipal Code; because this is a citywide document, sections of relevance to the ACP include Section 8A (MTA)

Approved/adopted date: November 7, 1995 (Prop E); last amended by voter-approved measure in June 2022 (Prop B)

Approved/adopted authority: The City Charter is amended by voter approval of ballot measures submitted by the Board of Supervisors or qualified petition initiatives submitted by voters

Abstract: The SF Charter functions as the city's constitution, adopted by voters. From the preamble: "In order to obtain the full benefit of home rule granted by the Constitution of the State of California; to improve the quality of urban life; to encourage the participation of all persons and all sectors in the affairs of the City and County; to enable the municipal government to meet the needs of the people effectively and efficiently; to provide for accountability and ethics in public service; to foster social harmony and cohesion; and to assure equality of opportunity for every resident: We, the people of the City and County of San Francisco, ordain and establish this Charter as the fundamental law of the City and County."

Effective period: Until modified by voter-approved amendment, or replaced by a voter-approved measure

Relevant Goals: See SEC. 8A.100. PREAMBLE, part C, numbers 8-12: "San Francisco residents require... 8. A safe and comprehensive network of bicycle lanes; 9. A safe and inviting environment for pedestrians; 10. Efficient movement of goods and deliveries; 11. A transportation sector that promotes environmental sustainability and does not contribute to global warming; and 12. A well-managed and well-coordinated transportation system that contributes to a livable urban environment."

Relevant Projects: N/A

Relevant Programs: N/A

Relevant Policies: Transit first (Public transit, including taxis and vanpools, is an economically and environmentally sound alternative to transportation by individual automobiles. Within San Francisco, travel by public transit, by bicycle, and on foot must be an attractive alternative to travel by private automobile; Decisions regarding the use of limited public street and sidewalk space shall encourage the use of public rights of way by pedestrians, bicyclists, and public transit, and shall strive to reduce traffic



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and improve public health and safety; Bicycling shall be promoted by encouraging safe streets for riding, convenient access to transit, bicycle lanes, and secure bicycle parking); Climate Action Plan.

Implementation/Program: The Charter, specifically section 8A, outlines the process

Missed opportunities:



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SF Environment Code, Sec 402

Object name: SF Environment Code, Sec 402 - Tenant Bicycle Parking in Existing Commercial Buildings

Object owner: SF Dept of the Environment

Type of object: City code ([online instance here](#))

Relation to other objects: section of Environment Code

Approved/adopted date: March 2012; amended in 2013 and 2014

Approved/adopted authority: SF Board of Supervisors

Abstract: For commercial buildings existing (or permitted to be built) as of March 2012, the owner, lessee, manager, or other people who control such a building shall allow tenants to bring bicycles into the subject building or provide alternative accommodation for parking tenant bicycles. Complements [Planning Code Sec 155.2](#), which applies to new or significantly-remade buildings.

Effective period: effective till superseded

Relevant Goals: see Purpose and Findings at [Sec 400](#)

Relevant Projects: none

Relevant Programs: none

Relevant Policies: mandatory workplace bicycle parking in commercial buildings (or permitted alternative accommodation, or permitted exception)

Implementation/Program: Unknown compliance enforcement; unknown implementation and operation support (hopefully SF Environment has print/web materials or staff to provide guidance to affected building owners and managers).

Missed opportunities: Only applies to tenants of commercial buildings, not residential ones ([Planning Code Sec 155.2](#) applies to new/remade commercial and residential buildings).



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SF Fire Code Sec D105.2

Object name: SF Fire Code ([2019 San Francisco ORDINANCE NO. 255-19](#))

Object owner:

Type of object: Ordinance

Relation to other objects: [2016 San Francisco ORDINANCE NO. 234-16](#) and [2015 Policy Analysis Report California Fire Code Governing Street Width and Specifications for Fire Engines in San Francisco](#)

Approved/adopted date: 2019

Approved/adopted authority: SF Board of Supervisors

Abstract: In 2015, then-Supervisor Scott Wiener requested information on the minimum allowable width of access roads. The Budget and Legislative Analyst's Office produced a report, linked below. The report notes that Appendix D, which requires a 26' clear unobstructed roadway for emergency access, was not adopted by San Francisco at the time of the letter. The report notes areas where the fire code conflicts with San Francisco's desire to have pedestrian-friendly streets. (San Francisco Budget and Legislative Analyst)

The report gives detailed information about purchasing fire trucks that can be operated on narrow streets, including the purchase of ladder trucks, pumpers, etc. This report also identifies areas where California should change its fire code or allow cities to do so.

San Francisco 2016 Fire Code did not adopt Appendix D. Appendix D was originally in the resolution, but this appendix was deleted via Board amendment.

San Francisco 2019 Fire Code deletes Section D105.2 of the Fire Code, which would require a minimum unobstructed width of 26 feet.

Effective period: New code adopted every 3 years

Relevant Goals:

Relevant Projects:

Relevant Programs:

Relevant Policies:

Implementation/Program:

Missed opportunities:



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City Planning Documents

SF Planning Code Sections 155(r), 155.1-4, 169

Object name: SF Planning Code

Object owner: SF Planning

Type of object: Land use code

Relation to other objects: coherent with SF General Plan, City Charter

Approved/adopted date: Adopted 1985-1996. Last amended 2021.

Approved/adopted authority: SF Planning Commission and SF Board of Supervisors

Abstract: For new buildings and certain alterations of existing buildings, [Section 155\(r\)](#) limits or otherwise conditions new curb cuts on protected street frontages (includes certain specific named streets and SFMTA Board of Directors adopted bicycle routes or lanes) in most zoning districts and where an alternative frontage is available; [Sections 155.1-4](#) require bicycle parking, showers facilities and lockers in the building and bicycle racks on adjacent sidewalks; and [Section 169](#) establishes the Transportation Demand Management (TDM) Program, which includes the option for providing more bicycle parking and amenities than are required by Sections 155.1-4.

[Article 4](#) establishes infrastructure development impact fees, which may be imposed on certain developments in certain zoning districts to fund the development of bicycle infrastructure among other streetscape elements. In addition, other Article 4 sections establish district-specific development impact fees and funds, some of which may similarly be used to fund bicycle infrastructure in or near the relevant zoning districts.

Effective period: effective till superseded

Relevant Goals:

Relevant Projects:

Relevant Programs: TDM Program – see separate description

Relevant Policies:

Implementation/Program: Planning Department and Department of Building Inspection staff verify compliance with curb cuts, required bicycle parking, showers facilities and lockers, and TDM measures as part of the building approval process. The TDM program includes additional ongoing compliance monitoring.

Missed opportunities: Planning Code requirements apply only to new or altered buildings, which misses the bulk of buildings in the City (the exception is existing City-owned and leased buildings, see [Section](#)



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[155.3](#)); Bicycle parking requirements are ratios based on land use intensity which may be too low to ensure parking commensurate with City mode-share goals.



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General Plan – Transportation Element/update

Object name: Transportation Element/update

Object owner: SF Planning

Type of object: Element of the SF General Plan

Relation to other objects: SF City Charter

Approved/adopted date: Adopted 1995, last amended 2019, update expected 2024

Approved/adopted authority: SF Planning Commission and SF Board of Supervisors

Abstract: The [Transportation Element](#) (TE) contains 260 instances of the word “bicycle”. Objectives and Policies where these instances are found fall into two rough categories: 1) Objectives and Policies concerning dedicated bicycle infrastructure (e.g. bicycle route network, parking, and other amenities), mostly located in the “bicycles” section (Objectives 27-29, with 21 associated policies), and 2) Policies associated with other wider Objectives (e.g. regional connectivity, carbon reduction targets), found throughout the TE.

[The TE 2024 update](#) may substantially rewrite the TE structure and content. Policies will be centered on achieving equitable outcomes, reducing greenhouse gas emissions, and integrating transportation and land use. The Transportation Element will address all transportation modes, how those modes interact in our city, and how those modes will enhance access to where people need to go. It will also address some of the most pressing issues that we face today, including climate change, racial and social equity, Environmental Justice, housing, jobs, economic vitality, Vision Zero, Transit First, and state of good repair.

Effective period: effective till superseded

Relevant Goals:

Relevant Projects:

Relevant Programs:

Relevant Policies:

Implementation/Program:

Missed opportunities:



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General Plan – Recreation & Open Space Element

Object name: Recreation & Open Space: An element of the San Francisco General Plan

Object owner: SF Planning Department

Type of object: General Plan (policies) ([online instance here](#))

Relation to other objects:

Approved/adopted date: Updated 2009; April 2014 (Final)

Approved/adopted authority: SF Board of Supervisors

Abstract: The 2004 Recreation Assessment was the culmination of a nine-month planning effort and process to evaluate the recreation needs of residents and to ensure the future direction of recreation within the SFRPD. The assessment pieced together critical issues, challenges, and opportunities. It was the first such report developed solely for recreation in SFRPD's history. The Recreation Assessment identified where the SFRPD should focus its energies and resources as it applies to the Recreation Division, continuing the legacy of high-quality recreation facilities and program services for the citizens of San Francisco. SFRPD should regularly assess its recreation component as required in the Charter.

Effective period: 2009-present

Relevant Goals: Recreation and open space are critical components of any community's quality of life; for San Franciscans, they are defining elements of the city itself. The City's open space system provides places for recreation, activity, engagement, peace, enjoyment, freedom, and relief from the built world. It serves the social and environmental health of the city, providing a sustainable environment.

Relevant Projects:

Relevant Programs:

Relevant Policies: Policy 3.1: Creatively develop existing publicly owned right-of-ways and streets into open spaces. Policy 3.2: Establish and Implement a network of Green Connections that increases access to parks, open spaces, and the waterfront. Policy 3.3: Develop and enhance the City's recreational trail system, linking to the regional hiking and biking trail system and considering restoring historic water courses to improve stormwater management. Policy 3.4: Encourage non-auto modes of transportation—transit, bicycle, and pedestrian access—to and from open spaces while reducing automobile traffic and parking in public open spaces.

Highlights of Policy 3.4 include: the elimination of some existing roadway cut-throughs and ensuring new roads are necessary for park access, increasing traffic calming on roads by reducing the capacity of roads in public open spaces to promote slower travel and safer routes for pedestrians and cyclists, establishing strict speed limits through monitoring speeds throughout parks and ensuring enforcement, and discourage all-day parking at parks.



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Policy 3.5: Ensure that, where feasible, recreational facilities and open spaces are physically accessible, especially for those with limited mobility

Implementation/Program: Unknown compliance enforcement; unknown implementation and operation support

Missed opportunities: There is a need to address the use of electric scooters and bicycles in parks and whether their speeds/use will be enforced. Ride-share docking stations are not mentioned in the General Plan. The general plan does not include multi-use pathways and signage designating the use of the path regarding safety.



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Better Streets Plan

Object name: San Francisco Better Streets Plan: Policies and Guidelines for the Pedestrian Realm

Object owner: Multi-departmental: Planning Department, San Francisco Municipal Transportation Agency (SFMTA), San Francisco Public Utilities Commission (SFPUC), Department of Public Works (DPW), Department of Public Health (DPH), Mayor's Office on Disability (MOD), Mayor's Office on City Greening, and the San Francisco County Transportation Authority (SFCTA)

Type of object: Guiding Document

Relation to other objects: Nested under SF General Plan and Countywide Transportation Plan; updated the Complete Streets Policy (Section 2.4.13 of the Public Works Code) and Better Streets Policy (San Francisco Administrative Code Section 98.1 ; see more on pages 27-28.

Approved/adopted date: December 7, 2010

Approved/adopted authority: San Francisco Board of Supervisors

Abstract: The Better Streets Plan provides a blueprint for the future of San Francisco's pedestrian environment. It describes a vision, creates design guidelines, and identifies the next steps to create a truly great pedestrian realm. The Plan seeks to balance the needs of all street users and reflects the understanding that the pedestrian environment is about much more than just transportation – that streets serve a multitude of social, recreational, and ecological needs that must be considered when deciding on the most appropriate design. The Plan follows the 'Better Streets Policy,' adopted by the Board of Supervisors and the Mayor in February 2006, which describes the varied roles that the City's streets should play. The Better Streets Plan provides guidelines for the pedestrian environment, defined as the areas of the street where people walk, shop, sit, play, or interact – outside of moving vehicles. Generally speaking, this refers to sidewalks and crosswalks; however, in some cases, this may be expanded to include certain areas of the roadway. The Plan does not generally focus on roadway or vehicle travel characteristics.

Effective period: Until superseded

Relevant Goals: See page iii + 4-5; at a high level, streets should (be): 1. Memorable; Support diverse public life; Vibrant places for commerce; Promote human use and comfort; Promote healthy lifestyles; Safe; Create convenient connection; Ecologically sustainable; Accessible; Attractive, inviting, and well-cared for

Relevant Projects:

Relevant Programs:

Relevant Policies:



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Implementation/Program: The Better Streets team engaged the Controller’s Office to evaluate current street design practices and offer recommendations to make the system more comprehensive and efficient. In line with the Controller’s Office recommendations, the city created an interagency Street Design Review Team to review major projects. More details about implementation recommendations are in Chapter 7.

Missed opportunities: Lack of mechanism to ensure implementation (see language on page 5 around the purpose of this guide and what would be required to realize the improvements). Limited by the narrow focus on the pedestrian realm; more connections could have been made between streetscape changes (limiting vehicle traffic, creating active transportation-focused corridors) and overall streetscape quality.



Active Communities Plan



Green Connections Plan & Network

Object name: Green Connections Plan & Network

Object owner: SF Planning (w/ SFMTA, SFDPH, MOH, WalkSF, Nature in the City, SF Parks Alliance)

Type of object: Plan

Relation to other objects: Adopted in the Recreation and Open Space Element (ROSE) of the General Plan

Approved/adopted date: Plan finalized in 2014, adopted in the ROSE 2019

Approved/adopted authority: ROSE adopted by the SF Planning Commission, SF Recreation and Parks Commission, and SF Board of Supervisors

Abstract: [Green Connections](#) is a multi-agency program to establish a network of streets that improves pedestrian and bicycle access to community amenities and recreational opportunities while enhancing the ecology of the street environment. Note that Green Connections do not necessarily include separate bicycle lanes and some include steep grades not optimal for cycling. The Green Connections Plan document includes a [network map](#) comprising 24 routes (totaling ~115 miles), a design toolkit and other resources to guide street improvements, and a discussion of implementation roles (but no comprehensive implementation plan).

Effective period: effective till superseded

Relevant Goals:

Relevant Projects:

Relevant Programs:

Relevant Policies: Policy 3.2 of the ROSE: Establish and Implement a network of Green Connections that increases access to parks, open spaces, and the waterfront.

Implementation/Program: There is no separate implementation plan or program to complete the Green Connections network. Rather, the [Implementation Chapter](#) calls for Green Connections considerations to be folded into the City's various project planning processes such as the SFMTA's CIP: "Currently the Sustainable Streets Division's CIP is informed by the SFMTA Strategic Plan, the Bicycle Strategy, the Pedestrian Strategy, and the Traffic Calming Program. The Green Connections Plan and related projects will be included in future SFMTA CIPs. Starting with the 2015-2019 CIP, the SFMTA will set aside funding that is specifically intended to be used for prioritizing, planning, and implementing changes along the Green Connections network to make walking and bicycling safer and more comfortable. Where appropriate, the SFMTA should coordinate with SFPUC, DPW, or community members to expand projects to include ecology and placemaking components."

Missed opportunities:



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General Plan – Housing Element/update

Object name: Housing Element and 2022 Update

Object owner: SF Planning

Type of object: Element of the SF General Plan

Relation to other objects: coherent with SF City Charter

Approved/adopted date: Adopted 2015. 2022 Update adoption expected in early 2023

Approved/adopted authority: SF Planning Commission and SF Board of Supervisors

Abstract: The Housing Element is state-mandated and must be updated every 8 years. Relevant Housing Element policies call for locating new housing in conjunction with existing and new sustainable transportation infrastructure, and for integrating bicycle amenities in new housing. The Planning Code implements these policies through zoning which regulates the location of new housing, code requiring new housing to have certain amenities such as bicycle parking, and the imposition of development impact fees that support sustainable transportation networks (e.g. complete street projects).

The 2022 Update to the Housing Element will expand the City's housing production focus to well-resourced neighborhoods on the west side of the City, where the active transportation network may be less dense relative to the eastern neighborhoods.

Effective period: effective till superseded

Relevant Goals:

Relevant Projects:

Relevant Programs:

Relevant Policies: POLICY 1.10: Support new housing projects, especially affordable housing, where households can easily rely on public transportation, walking, and bicycling for the majority of daily trips. POLICY 12.1: Encourage new housing that relies on transit use and environmentally sustainable patterns of movement. [...] bicycle amenities can and should be an integral component to housing and supporting the City's Transit First policy. POLICY 13.3: Promote sustainable land use patterns that integrate housing with transportation to increase transit, pedestrian, and bicycle mode share. 2022 Update draft Policy 32: Facilitate neighborhoods where proximity to daily needs and high-quality community services and amenities promotes social connections, supports caregivers, reduces the need for private auto travel, and advances healthy activities. 2022 Update draft Policy 33: Ensure transportation investments advance equitable access to transit and are planned in parallel with an increase in housing capacity to create well-connected neighborhoods consistent with the City's Connect SF vision and encourage sustainable trips in new housing. 2022 Update draft Action 33d: Adopt requirements that encourage sustainable trip choices in new housing and reduce transportation impacts from new housing. Such



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amendments may require certain new housing to include additional transportation demand management measures and driveway and loading operations plans, protect pedestrian, cycling, and transit-oriented street frontages from driveways, and reduce vehicular parking.

Implementation/Program: General Plan elements are implemented via the City's Planning Code and actions by other City bodies.

Missed opportunities:



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General Plan – Environmental Justice Framework

Object name: Environmental Justice Framework

Object owner: SF Planning

Type of object: Part of the SF General Plan

Relation to other objects: SF City Charter

Approved/adopted date: Adoption expected in early 2023

Approved/adopted authority: SF Planning Commission and SF Board of Supervisors

Abstract: SB1000 (2016) requires that cities and counties adopt policies in their General Plan to address environmental justice. In response, the City is developing an Environmental Justice Framework to identify key goals, priorities, and related General Plan Policies. The EJ Framework will outline a vision and goals to be incorporated into the City’s General Plan. It will also include guidance to City agencies and other stakeholders on how they can address environmental justice in their work. The first set of policies will be found in the Housing, Transportation, and Safety and Resilience Elements, which are currently undergoing updates. The current early draft of the EJ Framework includes bicycle-related draft Priority Policies and related Strategies in the “Physical Activity” topic area.

Effective period: Once adopted, effective till superseded

Relevant Goals:

Relevant Projects:

Relevant Programs:

Relevant Policies: Draft Priorities: Priority 2 – Enhance transportation access to, from, and within Environmental Justice Communities: Strategy 2.1 – Improve and expand transportation options to and from parks, including lack of parking availability, reliable transit service, and safe walking, biking, and rolling options. Strategy 2.2 – Address problems with or lack of infrastructure to support access to services, schools, parks, recreation centers, and other venues that support physical activity, including sidewalks, streetscape improvements, traffic calming, protected bicycle lanes, and improving public transit.

Priority 4 – Maintain and invest in transportation infrastructure, including streets and sidewalks to support physical activity and safety: Strategy 4.1 – Prioritize transportation funding to benefit EJ Communities.

Missed opportunities:



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Bay Trail/Blue Greenway Plan

Object name: [Bay Trail/Blue Greenway Plan](#)

Object owner: MTC/Port of San Francisco (Blue Greenway is a sub-segment of SF Bay Trail)

Type of object: Planning and Design Guidelines

Relation to other objects: San Francisco Bay Trail and Bay Area Water Trail Plans

Approved/adopted date: July 2012

Approved/adopted authority: Not Included

Abstract: The Blue Greenway is a City-sponsored project dedicated to planning and creating a public open space and water access network in southeast San Francisco, from China Basin Channel to the San Francisco County Line. The City is focused on maintaining a viable maritime and light industrial base and directing where new, complementary economic investment can occur. City and other public agencies, and community partners are working together to define how new parks and public spaces will be integrated, with a specific focus on the waterfront. In defining where new open spaces should be added to existing waterfront parks, and increasing water recreation opportunities, the Blue Greenway is the latest city project to further realize regional open space and recreation objectives of the San Francisco Bay Trail and Bay Area Water Trail Plans.

Effective period: Not included

Relevant Goals: Port of San Francisco's Waterfront Land Use Plan Design and Access Element goals

Relevant Projects: Eastern Neighborhoods Rezoning, Mission Bay, Pier 70 Master Plan, and Hunters Point Shipyard and Candlestick Point Redevelopment, Bayview Hunters Point, and Francisco's Better Streets Program, San Francisco Green Connections, and the San Francisco Bicycle Plan

Relevant Programs: Agua Vista Park – bike racks, Warm Water Cove – mountain bike/BMX bicycle training area

Relevant Policies: Linking streets and Connector streets

Implementation/Program: City's 2008 and 2012 Parks GO Bonds passed by San Francisco voters will provide \$39.5 million of funding towards Blue Greenway projects.

Missed opportunities: The plan does not discuss in depth the community engagement and partnerships mentioned in the planning process section. The guidelines don't specify the quantity and location of bike racks.



Active Communities Plan



Bayview Hunters Point Area Plan

Object name: [Bayview Hunters Point Area Plan](#)

Object owner: San Francisco Planning Department

Type of object: Completed Area Plan

Relation to other objects: Part of the General Plan

Approved/adopted date: General Plan - December 1945 (most recent 2010)

Approved/adopted authority: Planning Commission

Abstract: This plan is a tool for residents and the City to guide the future development of the Bayview Hunters Point district of San Francisco. Bayview Hunters Point, or simply the “Bayview”, is a predominantly industrial and residential district. Historically it has been the location of the City’s heaviest industries, some of its poorest residents, and its greatest concentration of public housing: characteristics that frequently placed it outside the mainstream of San Francisco life. But today the area is at a critical junction as urban growth is proceeding in a southeast direction toward the neighborhoods of Bayview Hunters Point, creating a situation whereby its problems can be translated into major opportunities for community, citywide and regional progress. This plan, based on many years of continued citizen input, seeks to provide guidelines for realizing Bayview’s growth potential in a manner that is in the best interest of the local residents and the City as a whole.

Effective period: Not included

Relevant Goals: (1) The need to arrest the demographic decline of the local population, particularly African Americans, and improve its economic position by giving greater priority to job and business growth than to housing growth. (2) The need to harmonize different land uses particularly the elimination of conflict between housing and industry, elimination of truck traffic through residential and neighborhood commercial areas, and reduction of health and environmental hazards caused by wastewater discharge and industrial by-products.

Relevant Projects: Third Street Light Rail

Relevant Programs: 3 major community redevelopment programs - an Affordable Housing Program, an Economic Development Program, and a Community Enhancements Program

Relevant Policies: Policy 4.5: Create a comprehensive system for pedestrian and bicycle circulation; Policy 11.2: Increase awareness & use of the pedestrian/bicycle trail system that links subareas in Bayview Hunters Point with the rest of the City.

Implementation/Program:

Missed opportunities: The plan primarily discusses policies but not how they will be implemented and metrics that can be used to track progress.



Active Communities Plan



Central Waterfront Area Plan

Object name: [Central Waterfront Area Plan](#)

Object owner: San Francisco Planning

Type of object: Area Plan

Relation to other objects: Part of the General Plan

Approved/adopted date: December 2008

Approved/adopted authority: Planning Commission

Abstract: The Eastern Neighborhoods Plans are structured as Area Plans in the city's General Plan. Each consists of eight chapters. The first two – Land Use and Housing – set out fundamental objectives and policies around stabilizing the use of land and providing affordable housing. The following six chapters – Built Form, Transportation, Streets, and Open Space, Economic Development, Historic Preservation, and Community Facilities – all provide the background and support for ensuring that we plan complete neighborhoods.

Effective period: Not included

Relevant Goals: N/A

Relevant Projects: The SFMTA is studying these corridors for bicycle improvements including bike lanes on Illinois Street and shared lane markings ("sharrows") on Indiana Street. Potential bicycle improvements to Mariposa Street are being studied under UCSF Mission Bay's new hospital planning and design process. Additional bicycle connections should be pursued to Pier 70 to connect with the Port's future redevelopment of the site. The proposed Blue Greenway offers the opportunity to extend the Bay Trail through the Central Waterfront. (page 58)

Relevant Programs:

Relevant Policies: Objective 4.7: Improve and expand infrastructure for bicycling as an important mode of transportation (page 57).

Implementation/Program: The Mission Creek Bikeway proposal should be evaluated for feasibility, specifically issues surrounding cost and implementation. Proposals for the Mission Creek Bikeway should be evaluated for feasibility, specifically issues surrounding cost and implementation.

Missed opportunities: While the Plan uses maps to visualize the planned bicycle improvements and proposed bikeways, there is not much discussion about how it would be implemented.



Active Communities Plan



Mission Area Plan

Object name: [Mission Area Plan](#)

Object owner: San Francisco Planning

Type of object: Area Plan

Relation to other objects: Part of the General Plan

Approved/adopted date: December 2008

Approved/adopted authority: Planning Commission

Abstract: In addition to the Eastern Neighborhoods-wide goals outlined above, the following community-driven goals were developed specifically for the Mission, over the course of many public workshops: Preserve the diversity and vitality of the Mission; Increase the amount of affordable housing; Preserve and enhance the existing Production, Distribution and Repair businesses; Preserve and enhance the unique character of the Mission's distinct commercial areas; Promote alternative means of transportation to reduce traffic and auto use; Improve and develop additional community facilities and open space; and Minimize displacement.

Effective period: N/A

Relevant Goals: N/A

Relevant Projects: The proposed Mission Creek Bikeway presents the opportunity for a future landscaped bicycle path from the Mission District to Mission Bay. Bikeway plans should be further examined, especially issues surrounding cost and implementation.

Relevant Programs: The Mission's existing bicycle infrastructure and relatively flat terrain create an attractive bicycling environment. The Valencia and Harrison Street bicycle lanes are busy with bicyclists during commute times and throughout the day. These lanes provide good north-south bicycle connections, but the Mission lacks strong east-west bicycle facilities. Improvements are planned to strengthen east-west connections. The SFMTA currently has improvements planned for Cesar Chavez and 17th Streets. Bicycle lanes and shared lane markings ("sharrows") on select segments of these streets will be installed once the San Francisco Bicycle Plan achieves environmental clearance. In addition, increased bicycle parking throughout the Mission especially in commercial areas and near BART is needed to accommodate the ever-increasing number of bicyclists. Recent citywide zoning code amendments require bicycle parking for all new developments. The proposed Mission Creek Bikeway presents the opportunity for a future landscaped bicycle path from the Mission District to Mission Bay. Bikeway plans should be further examined, especially issues surrounding cost and implementation.

Relevant Policies: Objective 4.7: Improve and expand infrastructure for bicycling as an important mode of transportation. POLICY 4.7.1 Provide a continuous network of safe, convenient, and attractive bicycle facilities connecting Showplace Square / Potrero Hill to the citywide bicycle network and conforming to



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the San Francisco Bicycle Plan. POLICY 4.7.2 Provide secure, accessible, and abundant bicycle parking, particularly at transit stations, within shopping areas, and at concentrations of employment. Policy 4.7.3 Explore the feasibility of the Mission Creek Bikeway project.

Implementation/Program:

Missed opportunities: No use of visuals or details about implementation regarding the Bikeway project for Mission Creek.



Active Communities Plan



Showplace Square/Potrero Area Plan

Object name: [Showplace Square Area Plan](#)

Object owner: San Francisco Planning

Type of object: Area Plan

Relation to other objects: Part of the General Plan

Approved/adopted date: December 2008

Approved/adopted authority: Planning Commission

Abstract: Showplace Square/Potrero Hill Goals/Vision: Build on the existing character of Showplace Square – Potrero Hill and stabilize it as a place for living and working; Retain Showplace Square’s role as an important location for PDR activities; Strengthen and expand Showplace Square – Potrero Hill as a residential, mixed-use neighborhood; and Ensure the provision of a comprehensive package of public benefits as part of the rezoning.

Effective period: N/A

Relevant Goals: N/A

Relevant Projects: The proposed Mission Creek Bikeway presents the opportunity for a future landscaped bicycle path through Showplace Square to Mission Bay. Bikeway plans should be further examined, especially issues surrounding cost and implementation.

Relevant Programs:

Relevant Policies: Objective 4.7: Improve and expand infrastructure for bicycling as an important mode of transportation. POLICY 4.7.1 Provide a continuous network of safe, convenient, and attractive bicycle facilities connecting Showplace Square / Potrero Hill to the citywide bicycle network and conforming to the San Francisco Bicycle Plan. POLICY 4.7.2 Provide secure, accessible, and abundant bicycle parking, particularly at transit stations, within shopping areas, and at concentrations of employment. Policy 4.7.3 Explore the feasibility of the Mission Creek Bikeway project.

Implementation/Program: The bicycle network in Showplace Square Potrero Hill is concentrated in the flatter areas on the perimeter of Potrero Hill and within Showplace Square. Upgrades to the network in the area are needed to improve east-west connections to the Castro, Mission district, and Mission Bay. The SFMTA has planned bicycle improvements in Showplace Square along 17th Street, which will strengthen connections to the Mission District and to Mission Bay, and the eastern waterfront along the existing bicycle lanes on 16th Street east of Kansas. Extension of the Potrero Avenue bicycle lanes to Division Street and a new bicycle lane along small segments of Kansas Street and 23rd Streets are also planned and awaiting environmental clearance. The proposed Mission Creek Bikeway presents the



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opportunity for a future landscaped bicycle path through Showplace Square to Mission Bay. Bikeway plans should be further examined, especially issues surrounding cost and implementation.

Missed opportunities: Multiple area plans include the same information and policies and visuals. Each individual plan would have benefitted from a more unique discussion.



Active Communities Plan



Balboa Park Station Area Plan

Object name: [Balboa Park Station Area Plan](#)

Object owner: San Francisco Planning Department

Type of object: Completed Area Plan

Relation to other objects: Adopted into the General Plan

Approved/adopted date: May 2009

Approved/adopted authority: Planning Commission

Abstract: The community members have shown an incredible will for positive change. The tireless efforts of community members have catalyzed the various improvement efforts now underway in the plan area. It was at their request that the Balboa Park Station Area Plan was launched in 2000. The Balboa Park Station Area has a good urban framework. The area is strongly served by public transportation and contains a diverse range of uses. Over the latter half of the 20th Century, we saw a decline in the vitality of this area and as result, in the quality of life for the people who live there. The Plan's objectives and policies are informed by three key principles; (1) Improve the area's public realm, (2) Make the transit experience safer and more enjoyable, and (3) Improve the economic vitality of the Ocean Avenue Neighborhood Commercial District.

Effective period: Not included

Relevant Goals: Create strong physical and visual links by improving accessibility to the Transit Station Neighborhood, City College, and the Ocean Avenue Neighborhood Commercial District

Relevant Projects: Redesign Ocean, Phelan, and Geneva Avenue intersections to accommodate bike lanes

Relevant Programs: Community Improvements Program

Relevant Policies: Provide new bicycle lanes that allow bikes to reach City College and the Ocean Avenue Neighborhood District from the BART station. Policy 2.4.2: Improve & expand bicycle connection throughout the plan area

Implementation/Program:

Missed opportunities: Could have benefited from the use of maps and other graphics to visualize the proposed connections between the Ocean Avenue Neighborhood Commercial District, City College, and the Transit Station Neighborhood within the document. Discussed policies but not the specifics of implementation.



Active Communities Plan



Cesar Chavez East Community Design Plan

Object name: [Cesar Chavez East Community Design Plan](#)

Object owner: San Francisco Planning

Type of object: Final Report

Relation to other objects: N/A

Approved/adopted date: February 2012

Approved/adopted authority: Not included

Abstract: The main goal of the Cesar Chavez East Community Design Plan is to develop a community-supported vision and a design for a street that is safe, comfortable, and accessible to all modes of transportation. As an important east/west connector, Cesar Chavez brings together the Mission, Potrero, Bernal Heights, Bayview, and Dogpatch neighborhoods and is also a vital link to the Blue Greenway and the Bay. The project poses these questions: What is environmental justice in one of the last industrial areas of the city shared every day by workers and residents alike? How to transform Cesar Chavez Street from a neglected industrial arterial into an innovative and inclusive hybrid corridor? How to integrate pedestrians, bicycles, cars, and trucks and offer recreational, ecological, and cultural opportunities for people who live and work in the area while preserving the industrial character of the area?

Effective period: Not included

Relevant Goals: “The intent of the Cesar Chavez East Community Design Plan (CCE) is to develop a community-supported vision and design for a street that is safe, comfortable, and accessible to all modes of transportation. As an important connector, Cesar Chavez brings together the Mission, Potrero, Bernal Heights, Bayview, and Dogpatch neighborhoods and is also a vital link to the Blue Greenway and the Bay. The project re-thinks Cesar Chavez Street as a truly multimodal corridor that can accommodate pedestrians, bicycles, cars, and trucks and that can offer recreational, ecological, and cultural opportunities to create new public spaces for people who live and work in the area.” (page 37)

Relevant Projects: Cesar Chavez West Streetscape project, Hope SF proposal, 101 Freeway project

Relevant Programs: Caltrans Environmental Justice Program

Relevant Policies:

Implementation/Program: Recommendations include replacing existing bicycle lanes with a two-way cycle track

Missed opportunities: While there is a heavy focus on community engagement and specific recommendations along with great use of visuals and maps, there is little discussion around the policy.



Active Communities Plan



Central SOMA Plan

Object name: [Central SOMA Plan](#)

Object owner: San Francisco Planning

Type of object: Final Plan

Relation to other objects: Rincon Hill (2006), Market & Octavia (2008), Central Waterfront (2008), East SoMa (2008), the Mission (2008), Showplace Square/Potrero Hill (2008), Transit Center (2012), and Western SoMa (2013)

Approved/adopted date: Adopted December 4, 2018

Approved/adopted authority: Planning Commission & Board of Supervisors

Abstract: Central SoMa is a 230-acre area that sits adjacent to downtown, has excellent transit access, and contains numerous undeveloped or underdeveloped sites, such as surface parking lots and single-story commercial buildings. As such, the neighborhood is well positioned to accommodate needed employment and housing in the core of the city and Bay Area region. It is also a neighborhood with an incredible history and a rich, ongoing, cultural heritage. As it grows and evolves over the next 25 years, Central SoMa has the opportunity to become a complete, sustainable, and vital neighborhood without losing what makes it special and unique today. The Central SoMa Plan contains the goals, objectives, and policies to guide this growth and evolution such that the results serve the best interests of San Francisco – in the present and the future.

Effective period: Not included

Relevant Goals:

Relevant Projects:

Relevant Programs: Proposed two-way bikeway and protected bike lane (page 52)

Relevant Policies: Objective 4.2: Make cycling a safe and convenient transportation option throughout the plan for all ages and abilities. Policy 4.2.1: Ensure that the bicycle network is in accordance with the City's Vision Zero policy and Bicycle Strategy. Policy 4.2.2: Minimize gaps in the existing bicycle network by providing bicycle routes through the Plan Area, designed for safety in accordance with the City's Vision Zero policy and Bicycle Strategy (page 53).

Implementation/Program: Application of existing SFMTA policies

Missed opportunities: Could have visualized the proposed protected bike lanes when discussing specific streets.



Active Communities Plan



Market and Octavia Area Plan

Object name: [Market and Octavia Area Plan](#)

Object owner: San Francisco Planning

Type of object: Area Plan

Relation to other objects: Part of the General Plan

Approved/adopted date: August 2020

Approved/adopted authority: Planning Commission

Abstract: The Market and Octavia Area Plan (The Plan) grew out of the Market and Octavia Neighborhood Plan (Neighborhood Plan) which in turn was the first plan to emerge from the City's Better Neighborhoods Program. This Area Plan is a summary of the topics covered in the neighborhood plan. The neighborhood plan was also adopted by the Planning Commission and should be referred to for further details and illustrations.

Effective period: N/A

Relevant Goals: Objective 5.5 establish a bicycle network that provides a safe and attractive alternative to driving for both local and citywide travel needs (page 71)

Relevant Projects:

Relevant Programs:

Relevant Policies: POLICY 1.1.2 Concentrate more intense uses and activities in those areas best served by transit and most accessible on foot or by bicycle. POLICY 4.2.3 Re-introduce a public right-of-way along the former line of Octavia Street, between Fulton Street and Golden Gate Avenue for use by pedestrians and bicycles. POLICY 5.1.3 Establish a Market Octavia neighborhood improvement fund to subsidize transit, pedestrian, bicycle, and other priority improvements in the area. POLICY 5.4.4 Consider recovering the full costs of new parking in the neighborhood and using the proceeds to improve transit, bicycle infrastructure, and equity-focused transportation programs. POLICY 5.5.3 Support and expand opportunities for bicycle commuting throughout the city and the region. POLICY 7.2.9 Redesign 13th Street between Valencia Street and Folsom Street to minimize the impact of freeway traffic and improve safety and comfort for people walking and riding bicycles

Implementation/Program: Detailed on page 71 about specific projects and implementation related to bicycles.

Missed opportunities: While this Area Plan discussed more in-depth bicycle infrastructure, it could have benefited from using maps and visuals.



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Western SOMA Area Plan

Object name: [Western SOMA Area Plan](#)

Object owner: San Francisco Planning

Type of object: Area Plan

Relation to other objects: Part of the General Plan

Approved/adopted date: N/A

Approved/adopted authority: Planning Commission

Abstract: The Task Force sought to stabilize the community through small, incremental steps, such as neighborhood notification, which accorded the residents of SoMa the simple courtesy of knowing in advance when new developments were planned for their community and by enacting formula retail controls. Limitations on market-rate SRO construction were adopted. The threat posed by large institutions to the service and light industries was abated. Careful research, open dialog, and the willingness to compromise have led the Planning Commission and Board of Supervisors to support every initiative, often unanimously, that the Task Force has brought forward.

Effective period: N/A

Relevant Goals: Objective 4.1 facilitate the movement of pedestrians and bicycles in the alleys. Objective 4.24 ensure that bicycles can be used safely and conveniently as a primary transportation mode and for recreational purposes. Objective 4.25 improve bicycle access to other areas of the city and the region. (Page 34)

Relevant Projects:

Relevant Programs:

Relevant Policies: POLICY 3.5.6 Establish an impact fee to be allocated towards a Public Benefit Fund to subsidize transit, pedestrian, bicycle, and street improvements; park and recreational facilities; and community facilities such as libraries, childcare, and other neighborhood services in the area. POLICY 4.1.2 Limit the supply of on-street parking in some alleys, to accommodate pedestrian and bicycle movement. POLICY 4.3.2 Reduce the supply of on-street parking on some neighborhood-serving streets, to accommodate transit and bicycle lanes. POLICY 4.4.2 Introduce traffic calming measures that promote pedestrian and bicycle transportation and safety. POLICY 4.4.6 Coordinate with MTA to develop an ongoing set of pedestrian and bicycle safety improvements for neighborhood-serving streets. POLICY 4.8.2 Introduce traffic calming measures that will promote pedestrian and bicycle transportation and safety in the area. POLICY 4.8.6 Coordinate with MTA to develop a minimum set of required pedestrian and bicycle safety improvements. POLICY 4.12.3 Coordinate with MTA to develop a minimum set of required pedestrian and bicycle safety improvements. POLICY 4.21.3 Create safe pedestrian and bicycle routes to community facilities. POLICY 5.3.5 Strengthen the pedestrian and bicycle network by extending



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alleyways to adjacent streets or alleyways wherever possible, or by providing new publicly accessible mid-block rights of way POLICY 7.3.9 Maximize pedestrian and bicycle access to the shoreline and all nearby major open space areas such as the waterfront and Yerba Buena Gardens.

Implementation/Program:

Missed opportunities: This plan speaks about objectives and policies broadly but does not go into depth about its implementation and specifics. There are also no visuals/maps.



Active Communities Plan



Transit Center District Sub-Area Plan

Object name: [Transit Center District Sub-Area Plan](#)

Object owner: San Francisco Planning

Type of object: Area Plan

Relation to other objects: Part of the General Plan

Approved/adopted date: N/A

Approved/adopted authority: Planning Commission

Abstract: This sub-area Plan seeks to enhance the precepts of the Downtown Plan, to build on its established patterns of land use, urban form, public space, and circulation, and to make adjustments based on today's understanding of the future. The Plan presents planning policies and controls for land use, urban form, and building design of private properties and properties owned or to be owned by the Transbay Joint Powers Authority around the Transbay Transit Center, and for improvement and management of the District's public realm and circulation system of streets, plazas, and parks. To help ensure that the Transbay Transit Center and other public amenities and infrastructure needed in the area are built, the Plan also recommends mechanisms for directing necessary funding from increases in development opportunities to these purposes.

Effective period: N/A

Relevant Goals: Objective 4.29 make cycling a safe, pleasant, and convenient means of transportation throughout the district. Objective 4.30 ensure high-quality on-street bicycle connections to the Transbay transit center. Objective 4.31 enhance facilities for intra-district bicycle travel. Objective 4.32 ensure local connections to regional bicycle facilities. (page 44)

Relevant Projects:

Relevant Programs:

Relevant Policies: Policy 4.36 Expand the Bicycle Network in the area. Policy 4.37 Provide the necessary connections to the future bicycle ramp on Howard Street between First and Second streets, which will be the primary access point for bicycles to the Transit Center, including a bicycle station at the train concourse level Policy 4.38 Do not preclude future connections to a potential Bay Bridge multi-use pathway Policy 4.39 Increase the requirement for secure bicycle parking in new and renovated non-residential buildings to a minimum of five percent of peak on-site employees and visitors. Policy 4.40 Develop a plan to identify demand and locations for installation of on-street bicycle parking in the Plan Area to supplement the current process of bicycle racks being installed at the request of building owners. Policy 4.41 Pursue legislation to require existing commercial and industrial development to provide secure bicycle parking in conformance with current requirements or to allow employees to bring bicycles into the building if parking is not provided. Policy 4.42 Support and implement a public bicycle-



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sharing program in the District. Policy 4.43 Update and publish an improved Bicycle Parking Design Guidelines document to establish appropriate parameters for off-street bicycle parking in new residential, commercial, and industrial development, consistent with the requirements in the Planning Code.

Implementation/Program:

Missed opportunities: This plan speaks about objectives and policies broadly but does not go into depth about its implementation and specifics. There are also no visuals/maps.



Active Communities Plan



Great Highway Concepts Evaluation Report

Object name: Great Highway Concepts Evaluation Report

Object owner: San Francisco County Transportation Authority

Type of object: Neighborhood Program

Relation to other objects: Ocean Beach Master Plan, District 4 Mobility Study

Approved/adopted date: Summer 2020

Approved/adopted authority: San Francisco Municipal Transportation Authority Board of Supervisors

Abstract: The Plan addresses serious challenges and outlines five concepts to implement strategies that will protect the Upper Great Highway (Sloat Blvd to Lincoln Way) from erosion exacerbated by climate change; provide recreation and encourage healthy sustainable modes; enhance the safety of vulnerable users by reducing vehicular function; and increase the economic vitality of the surrounding area.

Concept 1: Maintain the existing four-lane roadway, bicycles share lanes, and no pedestrians are allowed.

Concept 2: Reduce to two vehicle lanes, one in each direction, and introduce a shared-use promenade. Would require reconstruction.

Concept 3: No vehicle traffic, convert the existing four lanes to a permanent shared-use promenade. Estimated to generate 19,400 – 26,400 weekly ped/bike visitors. This concept has significant benefits of increased climate change resiliency, recreation/open space, increased well-being associated with bicycle/pedestrian activity, and a more connected bicycle/pedestrian network.

Concept 4: On weekends, holidays, and certain seasons, close the street to vehicles and provide full shared-use promenade. Estimated to generate 9,400 – 10,400 weekly ped/bike visitors.

Concept 5: Maintain two southbound vehicle lanes in the current northbound lanes, and a shared-use promenade in the current southbound lanes.

Using a combination of the initial analysis, staff observations, and feedback from the public, four key areas were identified for more detailed analysis. Of those study areas, only the northern end area of study has proposed bicycle and pedestrian network improvements. By closing Martin Luther King Jr. Dr, a raised bicycle and pedestrian crossing would be added at the Chain of Lakes intersection. Also, a potential realignment of the bike crossing away from Martin Luther King Jr. Dr and Chain Lakes intersection is a possibility if the small segment of Chain of Lakes is closed at Lincoln Way.

SF County Transportation Authority concluded that a full promenade (Concept 3) or Promenade/One-Way Roadway (Concept 5) should be pursued in the long term.



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Effective period: 2020-2022

Relevant Goals: Resilience, Sustainability, Equity, Engagement, Safety, Recreation, Health

Relevant Projects: South Ocean Beach Climate Change Adaptation Project

Relevant Programs: Lake Merced Pedestrian Safety Community Based Transportation Plan

Relevant Policies: Vision Zero

Implementation/Program:

Missed opportunities:



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Transportation Network Companies (TNCs)

TNCs & Disabled Access

Object name: TNCs & Disabled Access

Object owner: SFMTA

Type of object: Study/Report

Relation to other objects: TNC study series

Approved/adopted date: N/A

Approved/adopted authority: N/A

Abstract: This report identifies the opportunities and barriers that Transportation Network Companies (TNCs) present for people with disabilities in San Francisco, how their presence impacts equal access to all modes of transportation in the City, and explores how peer transportation agencies in other cities are interacting with TNCs to try and improve access.

Effective period: N/A

Relevant Goals: Using the Active Transportation Network to Advance Equity; Supporting Access to Active Transportation

Relevant Projects: [TNC Access for All Reporting Dashboard](#)

Relevant Programs: [CPUC TNC Access for All Program](#)

Relevant Policies:

Implementation/Program:

Missed opportunities:



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TNCs & Congestion

Object name: TNCs & Congestion

Object owner: SFCTA

Type of object: Study/Report

Relation to other objects: TNC study series

Approved/adopted date: N/A

Approved/adopted authority: N/A

Abstract: The San Francisco County Transportation Authority has released “TNCs & Congestion,” a report providing the first comprehensive analysis of how Transportation Network Companies Uber and Lyft collectively have affected roadway congestion in San Francisco. The report found that Transportation Network Companies accounted for approximately 50 percent of the rise in congestion in San Francisco between 2010 and 2016, as indicated by three congestion measures: vehicle hours of delay, vehicle miles traveled, and average speeds. Employment and population growth were primarily responsible for the remainder of the worsening congestion. As a share of total congestion citywide, TNCs account for an estimated 25 percent.

Effective period: N/A

Relevant Goals:

Relevant Projects:

Relevant Programs:

Relevant Policies: Traffic Mitigation Tax

Implementation/Program:

Missed opportunities:



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TNCs Today

Object name: TNCs Today

Object owner: SFCTA

Type of object: Study/Report

Relation to other objects: TNC study series

Approved/adopted date: N/A

Approved/adopted authority: N/A

Abstract: The information presented is a profile of estimated local TNC usage (trips made entirely within San Francisco) from mid-November to mid-December of 2016. The TNC data was originally gathered by researchers at Northeastern University from the Application Programming Interfaces (APIs) of Uber and Lyft and then shared with the Transportation Authority. The Transportation Authority's data team cleaned and analyzed the data for presentation here. The report found that TNCs are concentrated during the AM and PM peak periods when congestion is greatest and that they are concentrated on the busiest arterials, yet also operate extensively on neighborhood streets, including along major public transit lines. TNCs generate approximately 570,000 vehicle miles traveled, as much as 20% of intra-SF VMT, and 6.5% of average citywide weekday VMT.

Effective period: N/A

Relevant Goals:

Relevant Projects:

Relevant Programs:

Relevant Policies: Traffic Mitigation Tax

Implementation/Program:

Missed opportunities:



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TNCs and Land Use Planning Study

Object name: TNCs and Land Use Planning Study

Object owner: SF Planning (Contacts: Tam Tran, Wade Wietgreffe)

Type of object: Study, research

Relation to other objects: Part of the City's series of reports about TNCs' effects on various transportation areas (e.g., congestion (TA), access for people with disabilities (MTA)).

Reviewed and commented date: June 14, 2022

Reviewed and commented authority: Planning Commission

Abstract: The Planning Department led a study to research and analyze the impact of TNCs on land use planning and identify policy options to address the impacts. The study team examined the following questions:

- Are some land uses and densities associated with more TNC activity than others?
- What other built environment features are associated with TNC activity?
- Do TNCs create new or alter existing land uses?
- How is the development community reacting to TNCs?

More info at sfplanning.org/TNCs

Effective period: N/A

Relevant Goals: N/A

Relevant Projects: See the "Implementation/Program" section below.

Relevant Programs:

Relevant Policies: See the "Implementation/Program" section below.

Implementation/Program:

- The Planning Department will kick off a process this fall to develop new Planning Code controls for emerging mobility. The process will engage stakeholders in the development of the definitions for these land uses and controls such as preferred locations, and the types of associated controls such as site design and intensity.
- The findings from this study will inform updates to the General Plan, including the Transportation Element.

Missed opportunities:



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Regional Plans and Programs

WETA System Expansion Policy

Object name: WETA System Expansion Policy

Object owner: San Francisco Bay Area Water Emergency Transportation Authority (WETA)

Type of object: Policy

Relation to other objects:

Approved/adopted date: 2015

Approved/adopted authority: WETA Board of Directors

Abstract: The System Expansion Policy is intended to provide a framework for evaluating the feasibility of new ferry projects. The framework consists of policy statements that provide guidance for developing candidate project elements such as landside and waterside facilities, vessels, and service plans. In addition, a set of evaluation measures defines a range of productivity and efficiency metrics that inform the WETA Board and funding partners regarding a project's financial feasibility and sustainability.

Effective period: Ongoing

Relevant Goals: Project feasibility evaluation; bike-related recommendations are centered on improving bike parking infrastructure in support of last-mile transportation needs.

Relevant Projects:

Relevant Programs:

Relevant Policies:

Implementation/Program:

Missed opportunities:



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Caltrain Bicycle Parking Management Plan

Object name: Caltrain Bicycle Parking Management Plan

Object owner: Caltrain

Type of object: Plan

Relation to other objects:

Approved/adopted date: October 2017

Approved/adopted authority: Peninsula Corridor Joint Powers Board (JPB)

Abstract: Providing high-quality bicycle access is an essential part of supporting the maintenance and growth of Caltrain's existing and future ridership. Caltrain will continue to accommodate bikes on board its trains but must also support cyclists through significant improvements to the scale and quality of its wayside parking system.

The research and analysis in this Plan demonstrate that there is a significant market for high-quality wayside bike parking within Caltrain's existing ridership. However, Caltrain's existing structure for building, maintaining, and operating its bike parking system is not currently organized or resourced to support the expansion and operation of an improved bike parking system. Caltrain has the potential to build and sustain a bike parking system that will better serve its customers and ensure the continued growth of cycling as a primary mode of access to the system.

Effective period: October 2017 – December 2018

Relevant Goals: Enhance the customer experience for Caltrain passengers, focusing on the qualities of bike parking facilities that passengers identified as most important to them. Provide a viable alternative to bringing a bicycle on board for Caltrain passengers, addressing the supply and availability of bike parking facilities to ensure that adequate facilities are available for customers who would like to park their bikes at the station. Make efficient use of Caltrain's resources, measuring occupancy levels of bike parking facilities, the net operating costs per user and per space for each type of bike parking facility, overall capital costs per parking space, and the amount of real estate devoted to each parking space at stations.

Relevant Projects: Caltrain Bicycle Access and Parking Plan (BAPP)

Relevant Programs:

Relevant Policies: Caltrain's Comprehensive Access Policy Statement (2010) and Strategic Plan (2014)

Implementation/Program: Three core pathways for implementation include: maintenance and operations, State funding sources, and locally sponsored projects & programs.

Missed opportunities:



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Bay Bridge West Span Path

Object name: Bay Bridge West Span Path

Object owner: Metropolitan Transportation Commission, Bay Area Toll Authority, and Caltrans

Type of object: [Vision](#)

Relation to other objects:

Approved/adopted date: Presented in 2018, but not adopted. Rails-to-trails and CalBike created a petition in 2021 to have MTC add the path through their “Quick-Strike Program”.

Approved/adopted authority:

Abstract: The Bay Area Toll Authority, Caltrans, and A team of engineers and consultants looked into extending a path around Yerba Buena Island and across the West Span of the Bay Bridge to downtown San Francisco. The path would allow bicyclists and pedestrians to cross the entire length of the Bay Bridge and improve maintenance access for Caltrans. Contractors submitted designs in 2016 and shared them with the public in 2018 and a winning design was selected for a North Side Outboard design. The project was estimated to cost around \$341 Million, and funding sources were not identified (toll revenue cannot be used).

Effective period: N/A

Relevant Goals:

Relevant Projects:

Relevant Programs:

Relevant Policies: Extending the Bay Bridge path from Yerba Buena Island to downtown San Francisco supports statewide VMT and greenhouse gas emission reduction goals stipulated in [SB 743](#) and [AB 32](#); [Plan Bay Area 2050's](#) vision to construct 10,000 miles of new bike lanes and multi-use paths; [Caltrans' Sustainability, Livability and Economy Targets](#) to reduce statewide per capita VMT by 15%, reduce statewide GHG emissions by 15% below 2010 levels, and triple the number of bicycle trips across the state; and top priority project in the [Caltrans' 2017 District 4 Bike Plan](#).

Implementation/Program:

Missed opportunities:



Active Communities Plan



Caltrans D4 Bike Plan

Object name: Caltrans D4 Bike Plan

Object owner: Caltrans

Type of object: Plan

Relation to other objects: Part of the Statewide *Toward an Active California* initiative, the California State Bicycle and Pedestrian Plan

Approved/adopted date: March 2018

Approved/adopted authority: Caltrans

Abstract: The Caltrans District 4 Bike Plan (Plan) for the San Francisco Bay Area was developed within the framework of *Toward an Active California*, the California State Bicycle and Pedestrian Plan. This framework includes an overall vision, goals, objectives, and strategies to improve bicycle safety and mobility throughout the State. The District 4 Bike Plan, the first of its kind in the State, evaluates bicycle needs on and across the Bay Area's State transportation network and identifies infrastructure improvements to enhance bicycle safety and mobility and remove some of the barriers to bicycling in the region. This Plan will guide District 4 and its partners to develop an integrated bicycle network for the Bay Area.

Effective period: ongoing

Relevant Goals: Prioritize safety and comfort in creating complete bicycle networks. Design safer and more intuitive highway crossings and interchanges. Streamline and communicate the process for local agencies to engage with Caltrans and for Caltrans to engage with local communities. Promote innovation through the design and testing of new bicycle treatments. Incorporate social equity into the prioritization process for the District 4 Bike Plan. Increase investment in bicycle facilities on state highways. Engage with low-income, minority, rural, and tribal communities during planning and project development to address issues affecting those communities

Relevant Projects: *Toward an Active California* initiative, the California State Bicycle and Pedestrian Plan

Relevant Programs: District 4 Pedestrian Plan, Pedestrian Safety Monitoring (Pilot) Program 2016/2017, Bicycle Safety Improvement Monitoring (Pilot) Program 2018/2019

Relevant Policies:

Implementation/Program: Many of the projects identified in this plan were drawn from local plans or were created to support the projects in those plans. Where local agencies are pursuing projects that cross or use State right of way, there may be opportunities for Caltrans to partner with these agencies to help implement the relevant project improvement.

Missed opportunities:



Active Communities Plan



National Park Service / GGNRA plans

Object name: National Parks Service Active Transportation Guidebook: A Resource on Supporting Walking and Bicycling for National Parks and their Partners (2018)

Object owner: National Parks Service (NPS), in partnership with the U.S. Department of Transportation (USDOT) Federal Highway Administration

Type of object: Active Transportation Guidebook ([online instance here](#))

Relation to other objects: U.S. Department of Transportation 2018-2020 Strategic Plan

Approved/adopted date: July 2018, updated September 2018

Approved/adopted authority: NPS and USDOT

Abstract: The NPS Active Transportation Guidebook is intended to serve as a resource to parks and their partners and inspire them to pursue enhancements to active transportation to and within parks. This Guidebook contains 10 chapters that cover policy, infrastructure design, and programs that parks and partners can pursue to improve walking and bicycling opportunities for visitors and surrounding communities (Report Document Page, Page X).

Effective period:

Relevant Goals: see Executive Summary, page xii

Relevant Projects: Marin Headlands and Fort Baker Transportation Infrastructure and Management Plan, 2009 ([online Final EIS](#)). Transportation Innovation in the National Park System, 2021 ([online MOU](#))

Relevant Programs:

Relevant Policies:

Implementation/Program: Unknown implementation of the program. The guidebook is a recommendation for NPS, partners, and communities to adopt as an effort to minimize the use of vehicles when visiting parks; manage vehicle congestion, promote resource preservation, and accommodate current and increased visitation. The guidebook is intended to be used as a resource and includes chapters that cover Legal and Policy Framework, Planning and Project Scoping, Infrastructure and Multimodal Connectivity, Bicycle and Pedestrian Safety, Partnership and Funding, Visitor Activities and Programs, Open Street Opportunities, Bicycle Sharing and Rental Systems, Employee and Operational Opportunities, and Innovative Technologies and Emerging Trends.

Missed opportunities: The NPS Active Transportation Guidebook lacks a section for equity zones. Currently there are no policies or enforcement in effect. In Chapter 4 (Bicyclist and Pedestrian Safety) of the guidebook, resources for improving safety through law enforcement is mentioned.



Active Communities Plan



BART Bicycle Program Capital Plan

Object name: BART Bicycle Program Capital Plan

Object owner: BART

Type of object: Strategic Plan

Relation to other objects: Vision Zero San Francisco

Approved/adopted date: 2021

Approved/adopted authority: N/A

Abstract: This capital plan is the third in a series of documents to help plan capital improvements that encourage bicycle access to BART. The previous two versions focused on improvements to increase the system-wide rate at which passengers accessed stations by bicycle by expanding secure bike parking. As of 2017, 6.6% of passengers rode a bike to the station, and of those passengers, only 25% stored their bicycles at the station. This volume expands on the previous scope with the goal of increasing the proportion of passengers who park their bicycles at the station rather than bring them onboard a train with bicycle access capital efforts including networking existing eLockers, adding stairway channels, and additional accessible fare gates.

Effective period: 2017-2022

Relevant Goals: Increasing bicycle accessibility at BART stations.

Relevant Projects: Current Improvements: St/Mission and 24th St/Mission – 10 high-security smart racks called Bikekeep were installed at each station. It locks both the frame and front wheel and includes a tamper alarm.

Embarcadero – Increase the bike station’s visibility by replacing the existing perforated metal entry with glass, adding wayfinding signs and lighting, and a bicycle channel on the nearby stairway.

Proposed improvements: Incremental increases in bicycle racks, eLockers, and high-security smart racks (Bikekeep) can meet increased demand at 26 BART stations including the following within city limits: Balboa Park, Civic Center, Glen Park, Montgomery St, and Powell St.

Stairs impede the use of bicycles on BART trains but facilitating access with stairway channels would encourage more passengers to access stations by bicycle. As of 2017, 16th St/Mission has been retrofitted with channels. Locations to install channels are prioritized if they have concourse-level bicycle parking, increased bicycle ridership relative to other stations, and longer staircases. The following stations within City limits are where channels are needed for concourse bicycle parking: 24th St/Mission, Civic Center, and Embarcadero. The following stations within City limits are where channels are needed for access to the train platform: Balboa Park, Montgomery St, and Powell St.



Active Communities Plan



Accessible fare gates (AFG) have been installed at every BART station but additional will be added to the following stations within City limits: 24th St/Mission, Balboa Park, Civic Center, Embarcadero, Montgomery St, and Powell St.

Relevant Programs: Bike/Walk Access Network Gap Study

Relevant Policies:

Implementation/Program:

Missed opportunities:



Active Communities Plan



MTC Regional Active Transportation Plan

Object name: MTC Regional Active Transportation Plan & Complete Streets Policy

Object owner: MTC

Type of object: Plan & policy

Relation to other objects: Plan Bay Area 2050

Approved/adopted date: Spring 2022

Approved/adopted authority: MTC

Abstract: MTC envisions a Bay Area where many more people walk, bike, and roll every day on safe, accessible, and connected streets, paths, and trails to get to people, places, and transit. The Regional Active Transportation Plan will help get us there. MTC's Active Transportation Plan will guide investments in infrastructure and regional policy development and implementation. It supports the Plan Bay Area 2050 strategy to build a Complete Streets Network and helps to meet goals for safety, equity, health, resilience, and climate change.

In March 2022, MTC updated its Complete Streets policy with the goal of ensuring that people biking, walking, rolling, and taking transit are safely accommodated within the transportation network. This policy works to advance Plan Bay Area 2050 objectives of achieving mode shift, safety, equity, and vehicle miles traveled and greenhouse gas emission reductions, as well as state & local compliance with applicable CS-related laws, policies, and practices.

Effective period: 2022 - Ongoing

Relevant Goals: Safety, equity, accessibility, connectivity.

Relevant Projects:

Relevant Programs: Plan Bay Area 2050

Relevant Policies: Statewide Complete Streets policies

Implementation/Program: MTC-required Complete Streets Checklist; Currently refining Implementation Plan and creating final Active Transportation plan.

Missed opportunities:



Active Communities Plan



Recreation and Parks Dept Plans

Golden Gate Park Master Plan

Object name: [Golden Gate Park Master Plan](#) and [Circulation Plan](#)

Object owner: SF Recreation and Parks Department

Type of object: Master land use, transportation, preservation, and operations plan for GGP

Relation to other objects: Lays out circulation goals and objectives that were implemented by the Golden Gate Park Access and Safety Program. Provides a foundation for active transportation improvements in GGP

Approved/adopted date: October 15, 1998

Approved/adopted authority: San Francisco County Transportation Authority

Abstract: The Master Plan for Golden Gate Park is intended to provide a framework and guidelines to ensure responsible stewardship of the park. The plan is broken up into 7 objectives: Land Use and Activities, Landscape Preservation and Renewal, **Park Circulation**, Buildings Structures and Monuments, Recreational Uses and Facilities, Park Management and Security, and Community Involvement and Process. The Park Circulation objective is to create and maintain a parkwide system of recreational roadways, pathways, and trails that prioritize pedestrians and bicycles over motor vehicle traffic. The Circulation Plan was created to fulfill this objective and proposes actions such as traffic calming measures, road closures and modifications, and commuter parking restrictions. Separate bicycle and pedestrian circulation plans were also evaluated, as was a design hierarchy of ADA-accessible pathways.

Effective period: 1998-present

Relevant Goals: 1) Reduce the impacts of motor vehicles, particularly those that are using the park as an east-west route or for parking only. 2) Improve access by people coming to the park for recreational purposes, and improve access by modes such as bicycles, pedestrians, and transit. 3) Improve accessibility to park features for all, including seniors, persons with disabilities, and families with young children

Relevant Projects: See Golden Gate Park Access and Safety Program project list

Relevant Programs: GGP Access and Safety Program

Relevant Policies: Developed in tandem with Proposition J (Golden Gate Park Revitalization Act of 1998). Although well-intentioned, Prop J significantly reduced the effectiveness of the Master Plan by prioritizing parking and traffic.

Implementation/Program: GGP Access and Safety Program



Active Communities Plan



Missed opportunities: Limited to Golden Gate Park. A master plan that addresses connectivity to parks using the City's network of sidewalks, roadways, bike lanes, and transit lines would provide a more robust and comprehensive framework for park accessibility.



Active Communities Plan



McLaren Park (Mansell, Visitacion Ave, etc.)

Object name: McLaren Park Pedestrian, Bike and Streetscape Projects

Object owner: SF Recreation and Parks Department

Type of object: Park Improvements ([online instance here](#))

Relation to other objects:

2012 McLaren Park Vision Plan ([online document](#))

2020 McLaren Bond ([online presentation](#))

Approved/adopted date: 2018

Approved/adopted authority:

Abstract: The project is an effort to improve safety for people walking, biking, taking transit and driving on McLaren Park's streets and wide pathways, which include:

- Visitacion Avenue
- Sunnydale Avenue
- Crocker Amazon access; and
- John Shelley Drive Promenade

The initial effort will concentrate on Visitacion Ave., which will bring a variety of improvements to the corridor including new sidewalks, new bikeways, new paving, and traffic calming, along with opportunities to create new crosswalks, landscaping, and lighting.

Effective period: effective until projects complete

Relevant Goals: Improving pedestrian and bicycle safety by implementing shared roads with multi-use trails connecting the park to nearby neighborhoods. The addition of crosswalks and bulbouts will aid in traffic calming and increase pedestrian safety

Relevant Projects: McLaren Path and Trails Improvements

Relevant Programs: see [McLaren Vision Plan](#) Report

Relevant Policies: unknown

Implementation/Program: Unknown compliance enforcement; unknown implementation and operation support

Missed opportunities: This only applies to McLaren Park. The projects do not address policies or enforcement related to electric bicycles/scooters.



Active Communities Plan



SF Recreation and Parks Dept Strategic Plan

Object name: Strategic Plan, San Francisco Recreation and Parks 2021-2025 Update

Object owner: SF Rec & Parks Department

Type of object: Core strategies and objectives ([online instance here](#))

Relation to other objects:

Approved/adopted date: 2019; updated in 2020 and 2021

Approved/adopted authority: SF Board of Supervisors

Abstract: The Strategic Plan is a collaboration within the entire department of San Francisco Recreation & Parks, which includes gardeners, laborers, recreation staff, managers, and administration. The 2021-2025 strategic plan identifies core strategies and objectives while also laying out specific initiatives to achieve—acquiring new parklands, expanding youth programs that emphasize movement and wellness, caring for natural resources, and growing apprentice and workforce development programs.

Effective period: 2021-2025

Relevant Goals: To inspire Space, Play, Investment, and Stewardship

Relevant Projects:

Relevant Programs:

Relevant Policies: Objective 1.3.c aims to increase pedestrian and bike safety in Golden Gate Park by testing pilot strategies to improve traffic and circulation.

Implementation/Program: Unknown compliance enforcement; unknown implementation and operation support.

Missed opportunities: The Strategic Plan focuses on improving outdoor recreation through inspiring communities. The strategic plan lacks a plan for improving safety for pedestrians and bicyclists, implementing shared roads, and enforcement for electric bikes and scooters.



Active Communities Plan



Golden Gate Park Access & Safety Program

Object name: Golden Gate Park Access and Safety Program: Improving the park experience for all users

Object owner: SFMTA and SF Rec & Parks Department

Type of object: Access and Safety Program ([online instance here](#))

Relation to other objects: Implementation of goals found in the Golden Gate Park Master Plan.

Approved/adopted date: Public outreach started Summer 2021, with implementation in Spring 2022

Approved/adopted authority: SF Board of Supervisors

Abstract: The Golden Gate Park Access & Safety Program proposes a variety of policy recommendations focused on traffic safety, equity, accessibility, and mobility to Golden Gate Park—especially for those with high barriers to access. The program proposes making permanent the 3-mile stretch of car-free streets in the park from Lincoln Way to Kezar Drive, including JFK Drive. These streets will continue to allow access for emergency vehicles, Paratransit vehicles, park maintenance vehicles, and vehicles permitted to use Golden Gate Park facilities by RPD. Other improvements include:

- A vastly improved free Park Shuttle program
- Expanding and upgrading available ADA parking
- Ensuring vehicle access from the Richmond to Golden Gate Park and reducing traffic congestion on Chain of Lakes Drive
- Improving the service and reliability of Muni lines that serve Golden Gate Park
- Increasing awareness of pick-up/drop-off options for vehicle access to the park
- Partnering with community-based organizations on programming that connect residents of equity-priority communities to the park
- Bringing bikeshare and micro-mobility services to the park

Effective period: effective till superseded

Relevant Goals: Accessibility initiatives ([online document](#))

Relevant Projects: GGP Community Shuttle (~2018), JFK Promenade (2022), bicycle parking at key destinations (in progress), ADA curb ramps and tactile crossings (in progress), wayfinding infrastructure (in-progress), miscellaneous roadway striping and bikeway improvements (in progress and ongoing).

Relevant Programs:

Relevant Policies: Codified in [Section 6.1.12](#) of the SF Municipal Code through [Ordinance No. 74-22](#)

Implementation/Program: Unknown compliance enforcement; unknown implementation and operation support.

Missed opportunities: Only applies to Golden Gate Park pedestrian safety. Does not address policies or enforcement for electric scooters/bicycles.



Active Communities Plan



SF Public Works

SFDPW Paving Plan

Object name: Public Works Street Resurfacing Program Candidate Interactive Map

Object owner: SFDPW

Type of object: Interactive Map (<https://sfpublicworks.org/street-resurfacing>)

Relation to other objects: N/A

Approved/adopted date: N/A

Approved/adopted authority: N/A

Abstract:

Effective period: effective till superseded

Relevant Goals: Public Works considers Pavement Condition Index score, multi-modal routes, inquiries, annual budget, geographic equity, and project coordination with utility companies/city agencies when determine which streets to schedule for resurfacing work.

Relevant Projects:

Relevant Programs:

Relevant Policies: MTC helps Bay Area jurisdictions analyze pavement conditions to invest scarce maintenance funding through the use of StreetSaver.

Implementation/Program: Public Works Street Resurfacing Program/ All Public Works Street Resurfacing Program candidates are subject to substitution and schedule changes pending available funding, visual confirmation, utility clearances, and coordination with other agencies and are not guaranteed to be moved forward to construction. Unforeseen challenges, such as increased work scope, changing priorities, cost increases or declining revenue may arise, causing the Public Works Street Resurfacing Program candidates to be postponed or dropped from consideration.

Missed opportunities:



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Bike Network/Cycletrack Facility Maintenance

Object name: Bike Network/Cycletrack Facility Maintenance Discussion

Object owner: SF Public Works – Bureau of Street Environmental Streets (BSES)

Type of object: Feedback

Relation to other objects: N/A

Approved/adopted date: N/A

Approved/adopted authority: N/A

Abstract: BSES needs additional/updated cleaning equipment (multi-hogs) to operate the cycle tracks effectively. At the moment, Public Works has three Johnston c-201 sweepers, but they are all worn out. Public Works already have some RAVO sweepers that are larger and can take on some wider bike lane cleaning tasks (especially when the existing bike lane sweepers are down). In addition, BSES demands an updated city-wide bike route map so they can have up-to-date bike route information for proper maintenance.

BSES also noted that now car and truck traffic tires are not beating the weeds down and whisking debris to the curb for traditional sweeper service. Moreover, the road surface is degrading and losing surface area in the form of aggregate (gravel) being flung into bike lanes and weeds are growing out of cracks. Some lanes are delineated by flexible glue-down markers and gravel and weeds are deposited in the area between the glue-down markers. Overall, the new pavement would minimize debris build-up and broom support would be necessary to clear debris from bike lanes.

Effective period: N/A

Relevant Goals:

Relevant Projects:

Relevant Programs:

Relevant Policies:

Implementation/Program:

Missed opportunities:



Active Communities Plan



MOU Regarding Maintenance and Repair of Facilities in the Right of Way between SF Public Works and SFMTA

Object name: Memorandum of Understanding between San Francisco Public Works and the San Francisco Municipal Transportation Agency Regarding Maintenance and Repair of Facilities in the Right-of-Way

Object owner: SF Public Works and SFMTA

Type of object: Memorandum of Understanding

Relation to other objects: none

Approved/adopted date: September 5, 2018

Approved/adopted authority: SF Public Works and SFMTA

Abstract: none

Effective period: effective till superseded

Relevant Goals: none

Relevant Projects: none

Relevant Programs: none

Relevant Policies: none

Implementation/Program: SF Public Works and SFMTA

Missed opportunities: As more and more bike lanes are added in the City, additional drivers/cleaners may be needed. The MOU doesn't discuss the labor costs required to maintain the bike lanes.



Active Communities Plan



Better Market Street

Object name: Better Market Street

Object owner: SFMTA/SFPW

Type of object: Streetscape

Relation to other objects: Market Street is the spine of San Francisco's street network, connecting with transit (local and regional) and various bike facilities

Approved/adopted date: October 15, 2019

Approved/adopted authority: SFMTA

Abstract: The Better Market Street Project proposes a complete makeover of 2.2 miles of Market Street, from Steuart Street to Octavia Boulevard. In addition to addressing key safety needs, the multi-agency project will replace and upgrade aging infrastructure – including traffic signals, streetlights, streetcar tracks, BART grates, overhead wires, and underground utilities and repave the roadway from curb to curb. The project aims to improve the speed and reliability of surface Muni service. Additionally, the Better Market Street plan will ensure that all transit stops, curb ramps, and paving meet current Americans with Disabilities Act (ADA) standards and will construct larger center boarding islands.

Effective period: 2013-2025 (phase I)

Relevant Goals:

1. A street that is designed to reduce the number of traffic collisions and injuries
2. Improved performance and reliability of public transportation
3. An accessible sidewalk that identifies Market Street as the City's preeminent ceremonial street
4. Upgraded and new infrastructure

Relevant Projects:

- Upper Market Street Corridor Safety Improvements Project
- Sixth Street Pedestrian Safety Project
- Safer Taylor Street Project
- BART Canopies
- F loop reconstruction (phase 2)

Relevant Programs:

Relevant Policies:

Implementation/Program: The project will be constructed in phases to reduce the impacts to the local community. The first phase is a targeted infrastructure improvements project for the Mid-Market area



Active Communities Plan



between Fifth and Eighth streets. The decision to limit the scope of work in this contract was due to changing conditions as San Francisco recovers and emerges from the pandemic.

After developing alternatives and consulting with stakeholders in spring 2021, Public Works and SFMTA agreed on an alternative design for Phase 1 that focuses on the critical safety and accessibility upgrades.

Missed opportunities: Instead of constructing a 5-foot to 8-foot sidewalk-level bikeway between 5th and 8th streets, people riding bicycles will continue to use the 11-foot shared curb lane.



Active Communities Plan



Port of San Francisco

Draft Waterfront Plan

Object name: Port of San Francisco Waterfront Plan

Object owner: Port of San Francisco

Type of object: Strategic Plan

Relation to other objects: SFMTA Transit First Policy, Vision Zero, and Embarcadero Enhancement Project

Approved/adopted date: December 2019

Approved/adopted authority: Port of San Francisco

Abstract: Nine goals are set forth by the Port to guide future improvements along the waterfront. The most relevant goal for our purpose is ensuring the waterfront is accessible and safe for all users through sustainable transportation that serves the needs of workers, neighbors, visitors, and Port maritime and tenant operations. The 7 ½ mile waterfront includes access to the San Francisco Bay Trail and the recently added San Francisco Bay Area Water Trail – a growing network of boat launching and landing sites that offers urban sights and views. The Port coordinates with multiple City departments that have lead roles in managing streets and sidewalks to better connect upland neighborhoods.

Effective period: N/A

Relevant Goals: Continuous open space, strong public transit and agency partnerships, safe pedestrian and bicyclist environment, and managed parking and Transportation Demand Management (TDM) plans.

Relevant Projects:

Relevant Programs:

Relevant Policies: Open space policies: Provide separated walking and cycling paths, where possible, while integrating walkways with adjacent open spaces to enhance wayfinding, social interactions, and public enjoyment. Work with partner agencies to enhance public spaces within city streets and sidewalks to promote walking and bicycling and improve safety for all users.

A Safe Pedestrian and Bicycle Environment: By 2030, complete the San Francisco Bay Trail as a continuous walking and cycling path along the entire waterfront, from Aquatic Park to India Basin. The trail should: be as close to the water as possible, moving inland where necessary to accommodate maritime uses or sensitive habitats, be separate from auto traffic, where feasible, include separate walking and cycling paths, where possible, be consistent with Blue Greenway guidelines and accommodate maritime industrial access in the design of new or in the redesign of existing trail segments, and integrate wayfinding in the design of new public spaces. The Port applies the Blue



Active Communities Plan



Greenway guidelines to create pedestrian enhancements and Bay public access connections with upland neighborhoods in a manner that benefits the San Francisco Bay Trail and San Francisco Bay Area Water Trail. Coordinate with the SFMTA on projects to make bicycling more attractive than driving for most trips. Work to help eliminate conflicts between vehicles, bicycles, motorized personal vehicles (e.g., scooters), and pedestrians through improved design and signage. Provide secure bicycle parking, particularly at high volume destinations and in new Port development. Coordinate to enhance and improve connections between the waterfront and adjacent neighborhoods along Blue Greenway connecting streets. Separate truck and rail routes from walking and cycling routes, where feasible, by providing separated paths where these routes share the same corridor; and creating safe crossings where they intersect.

Managed Parking and Transportation Demand Management (TDM) Plans: Reduce parking demand and manage supply to improve pedestrian, bicycle, and transit mode share; neighborhood livability; safety; business district vitality; vehicle miles traveled (VMT) reduction; and air quality. Work with the SFMTA to develop a program of transportation improvements and implementation timeframes for Port tenant operations and projects, consistent with the City's Climate Action Plan, to work toward a goal of 80 percent of all trips being by non-driving modes by 2030. Port developments at Mission Rock and Pier 70 include transportation plans that minimize parking and private car storage and promote alternative modes. Transportation Demand Management plans are required in development projects to provide information and incentives to reduce the need to drive. Establish mode-shift goals for the various sections and subareas of the waterfront, based on existing and proposed land uses, City/Port transportation goals, and roadway capacity. Develop and implement Port-wide and subarea TDM plans that promote transit use, bicycle and pedestrian networks, shuttles, taxis, and other projects and programs on an area-wide basis, rather than on a project-by-project basis.

Implementation/Program: Blue Greenway Guidelines

Missed opportunities:



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Strategic Plan 2021-2025 (Port of SF)

Object name: Strategic Plan 2021-2025

Object owner: Port of San Francisco

Type of object: Strategic Plan

Relation to other objects:

Approved/adopted date: 2021

Approved/adopted authority: Port of San Francisco

Abstract: The Plan addresses serious challenges and outlines a clear path to develop and implement strategies that will stabilize the Port's financial position from the economic impacts of the COVID-19 Pandemic; empower BIPOC in Port operations and opportunities; and reduce seismic and climate change risks to protect the waterfront.

Effective period: 2021-2025

Relevant Goals: Economic Recovery, Productivity, Equity, Resilience, Sustainability, Evolution, Engagement

Relevant Projects:

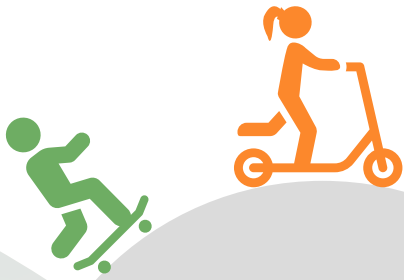
Relevant Programs: Port of San Francisco's Racial Equity Action Plan

Relevant Policies:

Implementation/Program:

Missed opportunities:

Appendix K



MEMORANDUM

May 12, 2023

To: Christopher Kidd and ACP Technical Advisory Committee

Organization: San Francisco Municipal Transportation Agency

From: Mia Candy, Joanna Wang, Peter Garcia, Adam Wood, Nan Jiang

Project: San Francisco Active Communities Plan

Re: Task 2A Draft Network and Count Analysis

Introduction

This memorandum presents findings from the Active Communities Plan (ACP) network and count analysis. Key findings are called out on pages 1 - 3, followed by more in-depth analysis and explanation of methods. Findings from this analysis will be used to inform next steps, including follow-up analysis, focused community engagement, and development of recommendations.

Purpose of the Network and Count Analysis

The purpose of this analysis is to understand the intensity of bike and micromobility use across San Francisco. By understanding where people ride today, and how ridership is related to the existing active transportation network, the project team can start to identify gaps in the network and opportunities for improvements. This analysis addresses the following key questions:

- Where are people riding bicycles and other micromobility devices? Where are people *not* riding? Why might ridership be distributed in the ways that it is?
- Where is ridership in relationship to the network? Are people using the network? Why or why not?
- Where is the network over- or under-performing? Where do we see low ridership on high-quality facilities, or vice versa?
- How is the network distributed across neighborhoods?
- What kind of ridership and network coverage is there in each of the six Equity Priority Communities (EPCs)?
- What can ridership and network coverage tell us about critical network gaps?

Key Findings

This analysis produced the following key findings:

- Network Coverage and Quality:
 - » Twenty-four percent of centerline miles in San Francisco have bike facilities.
 - » Eight percent of San Francisco's centerline miles have high-quality facilities, which are defined as separated bikeways, bike paths, slow streets, and car-free streets.
 - » Of the six EPCs, SoMa has the best network coverage (36%) and quality (22%). On the other hand, Western Addition/ Filmore has zero high quality facilities.
- Bike Commute Rates:
 - » In 2021, 3.1% of San Francisco residents biked or used another micromobility device to commute to work – down from 3.8% in 2018.
 - » Bike commuting is concentrated in dense, flat, urban neighborhoods and in places with close access to bike facilities. For example, in Hayes Valley, over 8% of residents commute by bike.
 - » In dense urban neighborhoods, bike commuting is associated with households that don't own cars.

- » In lower-density, primarily residential neighborhoods further from employment centers, there is no correlation between zero-car households and high rates of bike commuting.
- Micromobility Volumes:
 - » Data from Bay Wheels (Lyft) and Scooter-Share vendors show that:
 - Micromobility activity is concentrated in dense urban areas, and on streets with bike facilities.
 - In busy commercial areas, micromobility riders tend to ride on higher-comfort routes (i.e., high Bicycle Comfort Index [BCI] scores) rather than parallel, lower-comfort routes. For example, micromobility activity is concentrated on Polk Street, rather than Van Ness Avenue.
 - Micromobility ridership is low in the south and west of the city, despite Bay Wheels policies that specifically incentivize ridership in those service areas by capping rates and waiving fees.
 - The Great Highway/Great Walkway is a major destination for people renting e-bikes and e-scooters.
- Bicycle Activity:
 - » Data from the SFMTA's manual bicycle counts show that:
 - On average, volumes fell by about a third citywide between 2018 and 2022. But not all neighborhoods experienced this trend. Counters in the Inner Richmond, Inner Sunset, Potrero Hill, and Russian Hill captured an increase in volumes over the last five years.
 - On streets that received quick-build interventions in 2022, bicycle trips increased a total of 27%.
 - The Slow Streets with the highest bike volumes are Shotwell Street, Clay Street, Lake Street, and Page Street. These streets are either in dense, urban neighborhoods or provide key connections across the city. The Slow Streets with the lowest volumes are concentrated in the southeast of the city in neighborhoods with low bike volumes overall.
- Network Performance:
 - » Volumes vs Facility Type
 - Most trips in San Francisco take place off-network because most streets in the city do not have bike facilities. But when volume is normalized by centerline mileage, the data show that there is an association between ridership and quality facilities. Facilities with protection from cars (i.e., separated bikeways) have the highest ridership per centerline mile than any other facility type. Ridership per centerline mile increases as protection from cars increases.
 - » Volumes vs Network Quality
 - Low ridership on high-quality facilities can be an indicator that network improvements are needed, especially in high-density neighborhoods. A number of Class IV separated bikeways in San Francisco are under-performing, likely due to the vertical barrier type not being appropriate for the adjacent vehicular speeds, volumes, and curbside turnover. Examples include Turk Street and Golden Gate Avenue in the Tenderloin, and Alemany Boulevard and San Jose Avenue in St Mary's Park/Glen Park/Mission Terrace. During network development, the project team will examine the precise reason for under-performance to identify appropriate treatments.
 - High ridership on low-quality facilities can be an indicator of demand, and an opportunity for improving conditions for many riders, especially in low-density neighborhoods. Ocean Avenue in southwest San Francisco is a good example of a street with high volumes, despite having a Class III Bike Route and a relatively low comfort score. During public engagement, the project team will ground-truth this finding and determine whether a facility upgrade is needed.
 - » Off-Network Volumes
 - Off-network streets are a critical part of how San Franciscan's get around. Off-network volumes can provide insight into key opportunities or network gaps. Where volumes are high, but bicycle comfort is low, it may indicate that there is a need for infrastructure enhancements. Examples include Balboa Street and Clement Street in the Richmond and most of the off-network streets in the Tenderloin.

- » Volumes vs Network Coverage
 - When volumes are low, but network coverage is relatively high, it is an indication that the network may be under-performing due to other factors such as land use, density, connectivity, or network quality. Neighborhoods where the volumes are low relative to network coverage include Bayview-Hunters Point, Mission Terrace/Cayuga/Outer Mission, and the east-west corridors in the Sunset District. Further analysis is required to assess the precise reason for poor network performance, and identify appropriate policy, program, or infrastructure recommendations.

Next Steps

The project team will use the findings in this analysis to inform the following next steps:

- Conduct community engagement to ground-truth findings, and to collect feedback about why people may choose to ride in certain locations, and to avoid others.
- During community engagement, identify key destinations and barriers to identify gaps in and opportunities for improvement on the network.
- In places where the network is under-performing, conduct segment-level analysis to identify the precise reason for under-performance, and make appropriate network, policy, or program recommendations.
- In places where the network is over-performing, identify what precisely is working, and how that can inform network development and improvement in other parts of the city.
- Conduct an access or connectivity analysis to further identify geographic gaps in the network. Use the volume, safety, and Bicycle Comfort Index data to identify specific segments for improvement or priority.

Network Quality and Coverage

The project team analyzed network coverage across San Francisco’s neighborhoods. Network coverage is defined here as the percent of centerline miles that have bike facilities. Table 1 shows that citywide, 24% of San Francisco centerline miles have any kind of bike facilities. Table 1 also shows that 8% of San Francisco centerline miles have “high quality” facilities which include:

- Class IV Separated Bikeways,
- Class I Bike Paths,
- Slow Streets, and
- Car-Free Streets (such as Car-Free JFK in Golden Gate Park and the Great Highway/Walkway)

The project team compared network coverage and quality in six Equity Priority Communities (EPCs) to citywide averages. Western Addition/Filmore and Excelsior have low network coverage, compared to the entire city as well as the other EPCs. SoMa, Mission, and Tenderloin are all located in San Francisco’s dense urban center and as result, have some of the highest network coverage in the city.

When we evaluate *high quality* network coverage, SoMa has the highest share (22%) of centerline miles with high-quality facilities. This far exceeds the citywide average of 8%. Bayview-Hunters Point and Outer Mission/Excelsior have lower than average quality network coverage. Western Addition/Filmore has *zero* high quality facilities – there are no separated bikeways, bike paths, slow streets, or car-free streets within the formal neighborhood boundaries.

Table 1: Network Coverage and Network Quality Citywide vs. Equity Priority Communities

Neighborhood*	Network Coverage	Network Quality	
	Percent of Centerline Miles with Bike Facilities	Percent of Centerline Miles with High Quality Facilities	Percent of Network that is High Quality
Citywide Average	24%	8%	28%
Bayview-Hunters Point	23%	5%	21%
Outer Mission/	32%	7%	21%
Excelsior	9%	2%	16%
Mission District	30%	8%	28%
SoMa	36%	22%	61%
Tenderloin	28%	10%	38%
Western Addition/ Filmore	19%	0%	0%

*A table with the network coverage and network quality for all San Francisco neighborhoods is provided in Appendix A.

Bicycle Commuting

San Francisco's Climate Action Plan identifies a goal of 80% low-carbon trips by 2030. Converting commute trips from driving to active or shared modes will be a critical step in achieving the city's climate goals. To that end, the SFMTA is tracking bicycling commuting, and how it has changed year over year. The Active Communities Plan project team analyzed mode share data from the 2021 American Census Survey (ACS) 5-Year Estimates. Figure 1 and Figure show bike commute mode share for San Francisco Census tracts in 2021 and 2018 (i.e., what percent of people living in each census tract commuted to work by bike). In 2021, bicycling made up 3.3% of citywide commute travel. This is down from 3.8% in 2018.¹ This decrease could be explained by COVID-related impacts, including the nationwide shift to remote work.

Where in San Francisco is bike commuting high, and why might that be the case?

The data show that bike commuting is concentrated in San Francisco's dense urban center, near Downtown and the Financial District. In Hayes Valley, the Mission District, Potrero Hill, and Haight Ashbury, over 6.8% of the workforce commutes to work by bike. Hayes Valley has particularly high rates of bike commuting – over 8%. Hayes Valley is also one of the few neighborhoods that did not see a decline in bike commuting between 2018 and 2021. Bike commuting is likely concentrated in these neighborhoods due to the density of (and proximity between) people, housing, and jobs. Compared to other parts of the city, bike routes in these neighborhoods are also relatively flat.

The data shows an association between bike commuting and bike infrastructure. There is a noticeable concentration of commuting around the "Wiggle" bike route which runs from Market Street to Golden Gate Park. Bike commuting is also associated with a concentration of Class II Bike Lanes and Class IV Separated Bikeways in Haight Ashbury, North Panhandle, Duboce Triangle, and Inner Mission. The project team also compared high bike commuting rates to census tracts where vehicle ownership is low (Figure 3), to see if there is a correlation. In SoMa, the Mission District, and NoPa, there is some association between households that do not own cars and commuting by bike – likely due to proximity between where people live and where they work. The project team also found that there is some correlation between high-comfort network facilities, and neighborhoods with high bike commute rates.

Where in San Francisco is bike commuting low, and why might that be the case?

Neighborhoods with relatively low bike commuting are located in the south and west of the city. In neighborhoods like Bayview-Hunter's Point, Outer Mission, Excelsior, and Lakeshore, low bike commuting is likely a result of land use patterns – people simply live too far from their jobs to make biking an attractive option. In these neighborhoods, bike commuting is low even for households without cars (see Figure 3). People who live far from their jobs and do not own a car are likely choosing transit as their primary commute mode. In other neighborhoods with low bike commuting such as Chinatown, Twin Peaks, and Pacific Heights, steep slopes are likely a factor.

Table 2: Commute to Work by Bike Citywide vs. Equity Priority Communities

Neighborhood	Percent Commute to Work by Bike (2021)	Percent Bike Commuters that are Women (2021)
Citywide Average	3.1%	30.9%
Bayview-Hunters Point	1.3%	25.6%
Outer Mission/ Excelsior	0.7%	19.3%
Mission District	7.9%	34%
SoMa	4.1%	26.1%
Tenderloin	3.4%	22.1%
Western Addition & Filmore	4.3%	42.5%

A table with the bike commute rates for all San Francisco neighborhoods is provided in Appendix A.

¹ <https://www.sfmta.com/getting-around/bike/bicycle-ridership-data/where-are-people-biking>

Figure 1: Percent of People in Each Census Tract that Commute to Work by Bike (2021)

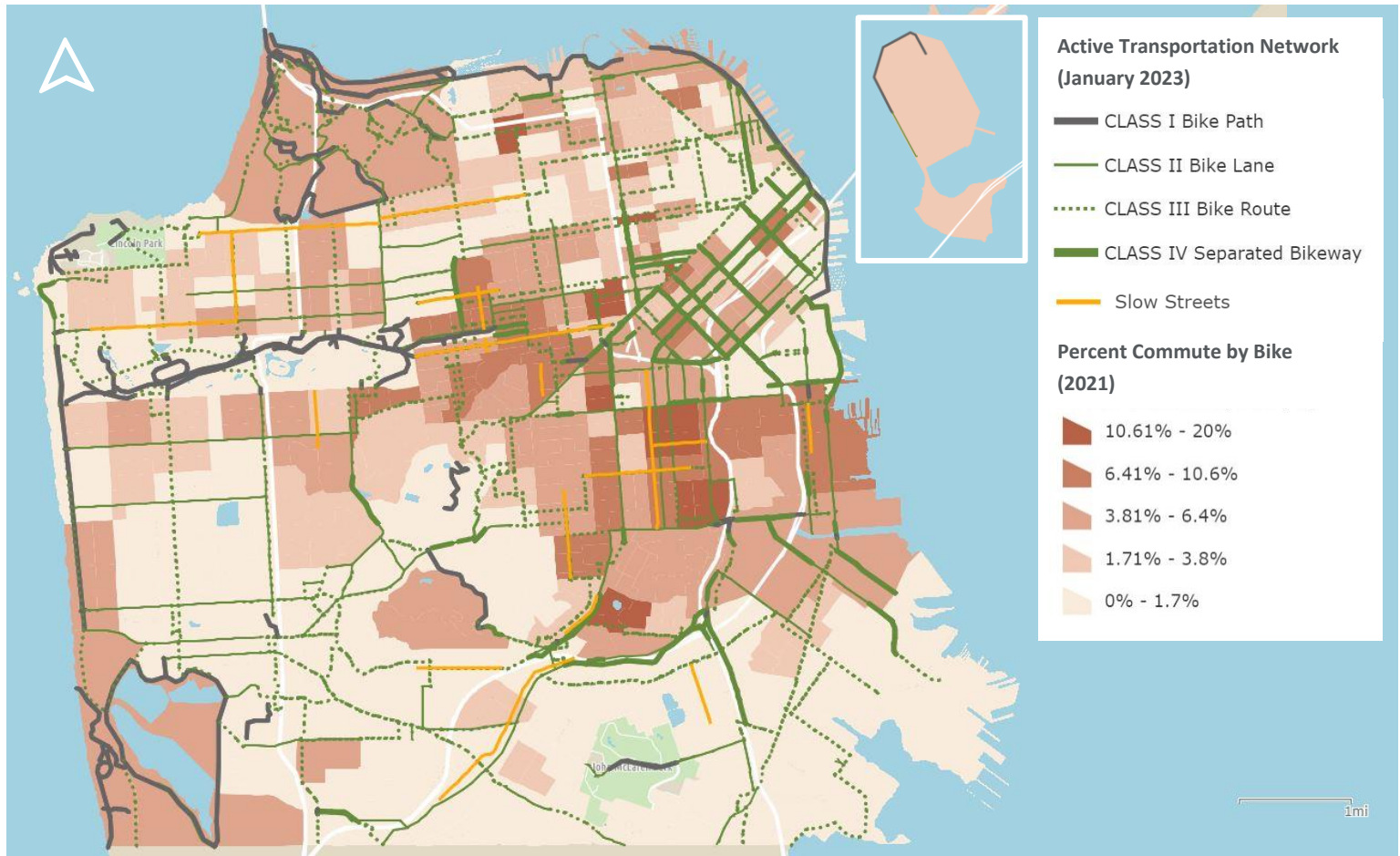
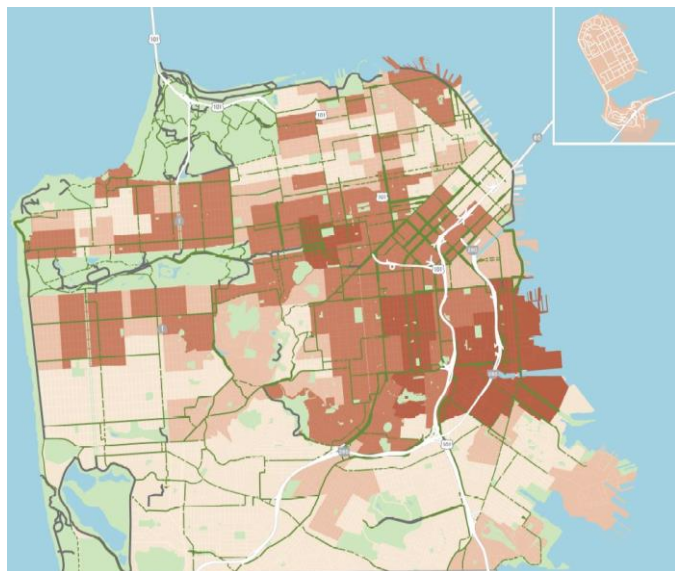


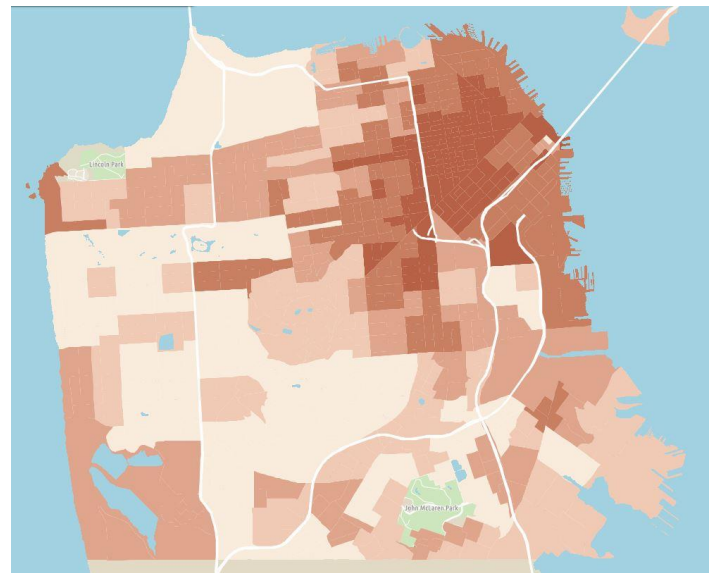
Figure 2: Percent Commute to Work by Bike (2018)



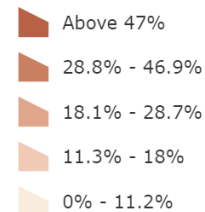
Percent Commute by Bike (%)



Figure 3: Percent Zero Car Households (2021)



Percent Zero Car Households (%)



Micromobility Activity

The San Francisco Active Communities Plan addresses biking as well as all other modes that can legally use the active transportation network, including scooters, e-bikes, and electric wheelchairs. To understand where micromobility activity is concentrated, the project team analyzed 2022 micromobility data including:

- Bay Wheels e-bike volumes throughout the city (data from Lyft)
- Bay Wheels non-electric bike volumes at docking stations (data from Lyft)
- Electric scooter volumes throughout the city (data from vendors including Lime, Bird, and Spin)

Figure 4 shows 2022 average annual daily micromobility volumes, including Bay Wheels e-bikes and scooter-share e-scooters. Street-level volumes shown in Figure 4 *do not* include activity for non-electric Bay Wheels bikes, because the manual bikes do not collect routing data. To visualize manual micromobility count data, Figure 4 also shows the number of bikes checked out of each docking station daily in 2022.

Where in San Francisco is micromobility ridership high, and why might that be the case?

The data shows that micromobility activity is concentrated along key commercial corridors and in dense urban areas including Market Street (about 900 trips per day), Valencia Street (about 500 trips), and Polk Street (about 400 trips). The Embarcadero also has a notable concentration of micromobility trips – over 1,800 trips per day. Ridership in the northeast of the city is likely due, in part, to the density of people, jobs, and destinations. Market, Valencia, and Polk are popular routes because they offer direct and convenient links between destinations.

Data on rider comfort shows that in general, busy commercial corridors are relatively uncomfortable for riders due to high vehicular volumes, a prevalence of double parking, and curbside turnover. But the comfort data shows that Market, Valencia, and Polk are relatively comfortable, compared to parallel streets. This indicates that micromobility riders avoid uncomfortable commercial corridors in favor of more comfortable, parallel routes – usually routes that have bike facilities. Table 3 shows how comfort and availability of facilities may be influencing where people choose to ride.

Table 3: Micromobility Ridership on Key Commercial Corridors

	Key Corridor	Comfort Score	Facility Type
Instead of riding on...	Van Ness Avenue	Low	None
Riders choose...	Polk Street	Moderate – High	Bike Route and Separated Bikeway
Instead of riding on...	Mission Street	Low - Moderate	None
Riders choose...	Market Street	Moderate	Bike Route and Separated Bikeway
Instead of riding on...	Guerrero Street or Dolores Street	Low - Moderate	None
Riders choose...	Valencia Street	Moderate - High	Bike Lane

Where in San Francisco is micromobility ridership low, and why might that be the case?

When we compare micromobility ridership to the Bay Wheels service area (Figure 5) and the scooter-share service areas (Figure 6), we can see that ridership is surprisingly low in the south and west of the city. The Richmond, Inner Sunset, Balboa Park, and Bayview-Hunters Point all have proximity to bikeshare stations, and fall within the micromobility service areas, but have relatively low volumes (less than 40 average daily rides). Figure 5 shows that Bay Wheels has two special service areas where fees are waived to incentivize e-bike ridership in the south and west

of the city^{2,3}. Despite this, ridership remains relatively low. Low ridership is likely due, in part, to relatively low network coverage in these neighborhoods, as well as land use patterns – destinations are further away and trips are longer, making micromobility a less attractive option to residents.

A notable exception to this trend is the Great Highway/Great Walkway, which has over 100 micromobility trips per day, despite being located far from bikeshare stations. San Franciscans and tourists are likely renting e-bikes and e-scooters specifically to ride the Great Highway, which suggests that the facility is an attractive recreational spot and key destination for residents and visitors.

What is the relationship between micromobility volumes and the active transportation network?

To understand the relationship between micromobility activity and the existing active transportation network, the project team evaluated volume data against existing infrastructure. Table 4 shows that micromobility volumes are relatively high on Class II Bike Lanes and Class IV Separated Bikeways, compared to streets with no bicycle facility. It is notable that micromobility volumes are low on the city’s Class I Bike Paths, including those in Golden Gate Park and the Presidio. This may be a result of service areas – Golden Gate Park falls outside of all micromobility service areas. In the Presidio, which does allow Bay Wheels bikes, low ridership may suggest that people are choosing micromobility for commuting or transportation purposes, as opposed to recreation.

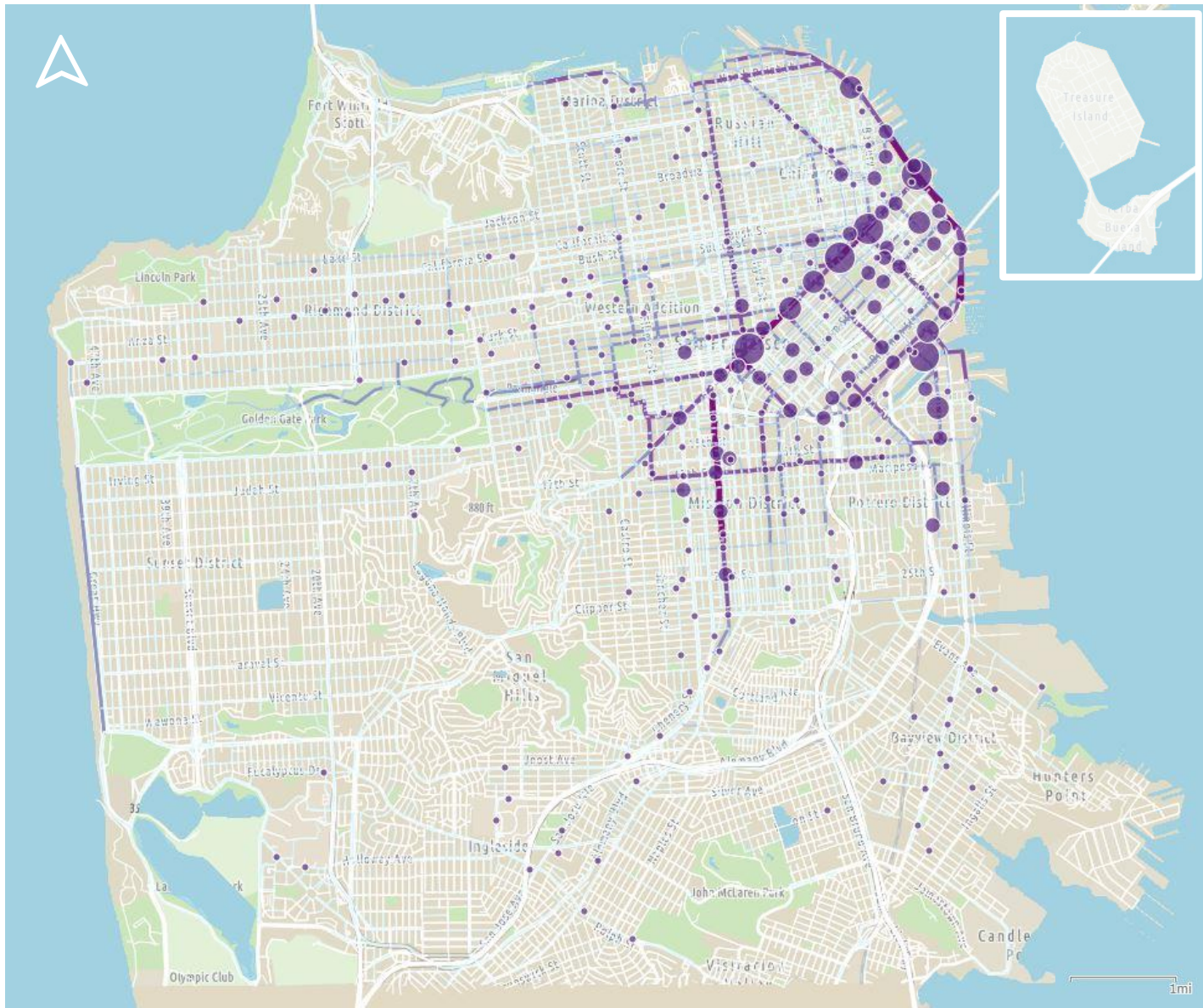
Table 4: Micromobility Volume by Bike Facility

Bike Facility (Least modal separation to most)	Centerline Miles*	Micromobility Volume (2022)	Micromobility Volume Per Centerline Mile
No Facility	890.5	90,965	102
Class III – Bike Route	115.9	67,136	579
Class II – Bike Lane	90.3	64,701	716
Class IV – Separated Bikeway	29.8	43,666	1,464
Slow Street	13.8	5,841	425
Class I – Bike Path	40.5	8,794	217

* This analysis uses centerline miles as a core metric. This accounts for the difference between the mileage figures in Table 4 and the mileage figures listed on the SFMTA’s website. The figures on the SFMTA website represent lane miles – in locations where the same facility is present on both sides of the street, both sides count toward the total mileage. In this network analysis, streets with the same facility on both sides of the street are *only counted once* toward total mileage. When a street has different facilities on each side of the street, the mileage is counted toward the total mileage *for both* facility types. This analysis uses the active transportation network as it was in January 2023.

² [2021 Scooter Permit Letters and Terms & Conditions](#)
³ [Bikeshare Pricing Frequently Asked Questions \(FAQ\), SFMTA \(2022\)](#)

Figure 4: Average Annual Daily Micromobility Volumes



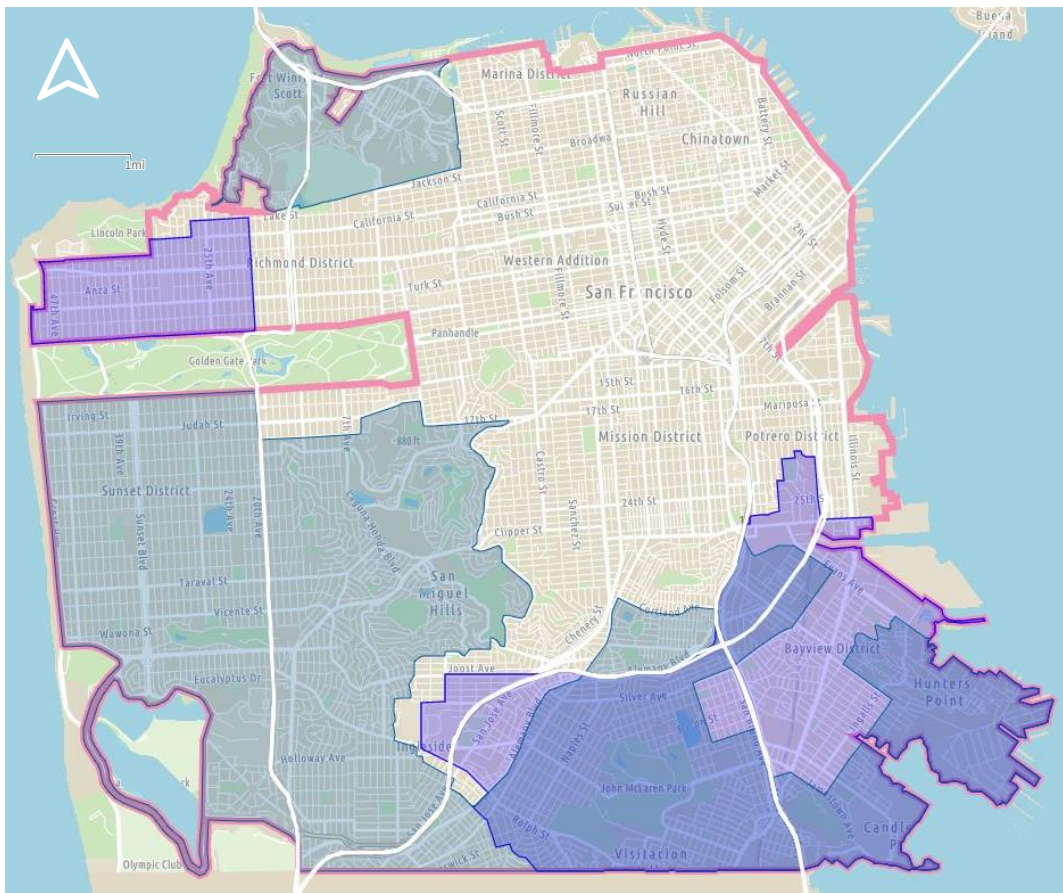
Electric Micromobility Volumes (2022)

- 501 - 1909
- 201 - 500
- 101 - 200
- 51 - 100
- 1 - 50

Bike-Share Docking Station Volumes (2022)

- > 90 - 120
- > 60 - 90
- > 30 - 60
- 0 - 30

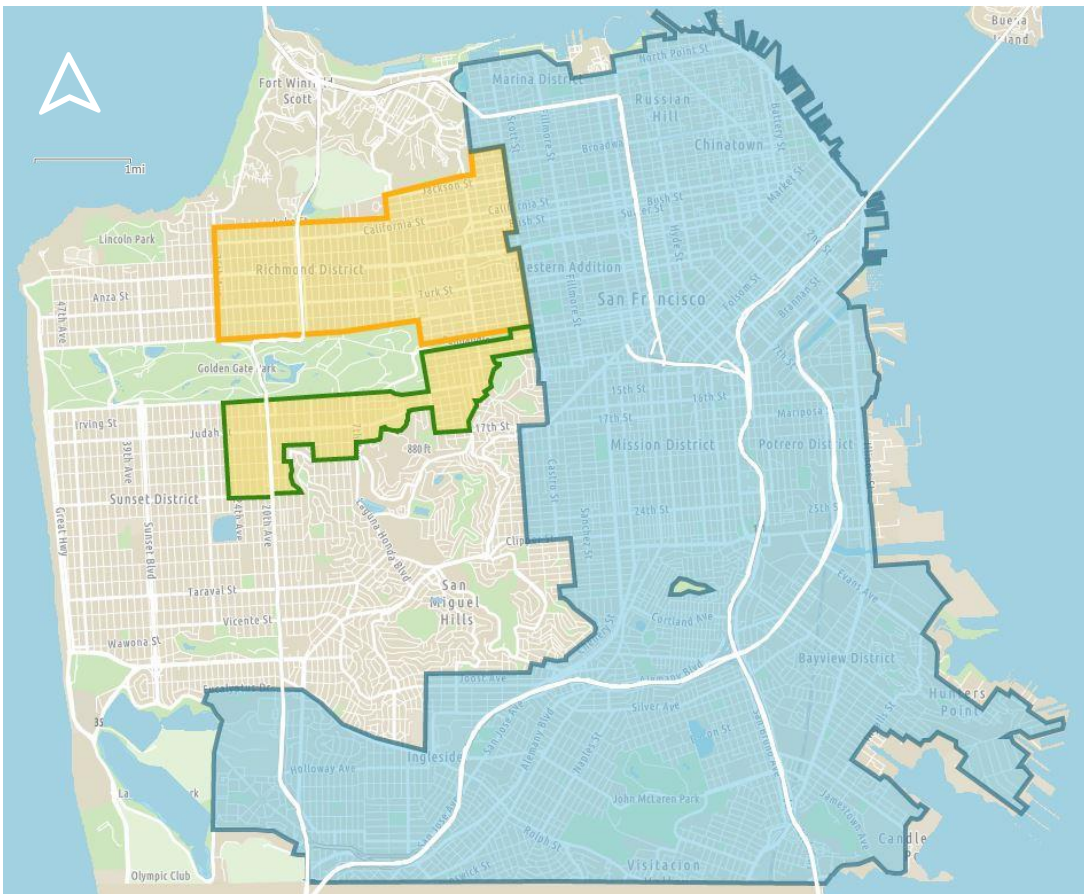
Figure 5: Bay Wheels Service Area and Incentive Pricing






Bay Wheels Service Areas & Policies

-  Bay Wheels Service Area
-  \$2 E-Bike Cost Per Minute Cap for Members
-  No Penalty for Parking Outside Dock

Figure 6: Scooter-Share Service Areas



Scooter-Share Service Areas

-  Inner/Central Richmond
-  Inner/Central Sunset
-  Core Service Area

Bicycle Activity

Bicycle volumes are notoriously challenging to measure at a city-wide scale. The data available for bike volumes in San Francisco include:

- 22 manual counters, which capture both bikes and micromobility devices
- Bike volume counts for 25 slow streets, collected during 2022
- Bike volumes for 13 streets before and after quick-build installations
- Estimated bike volumes for all San Francisco streets from Replica, and activity-based travel demand model

Before modelling citywide estimates, the project team reviewed the SFMTA's manual count data to understand if they show any volume trends. Table 5 shows volumes collected in eleven neighborhoods via 22 manual counters. A regression analysis showed that bikes account for approximately 60% of the trips captured by the counters. The other 40% represents people on micromobility devices riding in bike lanes. The data show that on average, volumes fell by about a third citywide. But not all neighborhoods experienced this trend. Counters in the Inner Richmond, Inner Sunset, Potrero Hill, and Russian Hill capture an increase in volumes between 2018 and 2022.

Table 5: Bike and Micromobility Volumes from Manual Counters (2018 – 2022)

Neighborhood	Number of Counters	Volume 2018	Volume 2022	Percent Change
Bayview	1	779	35	-96%
Bernal Heights	1	210	142	-32%
Inner Richmond	1	136	146	7%
Inner Sunset	2	233	278	19%
North Beach	1	955	723	-24%
Potrero Hill	1	146	162	11%
Russian Hill	1	282	620	120%
SoMa	6	8,216	5,023	-39%
The Marina	1	3,096	2,283	-26%
The Mission	3	2,454	1,964	-20%
Western Addition	4	3,223	2,938	-9%
TOTAL	22	19,730	14,314	-27%

Table 6 shows volumes on streets before and after they received quick-build projects. Streets that received quick-build projects in 2022 all saw an uptick in bike trips. Across all 13 project locations, bike trips increased by a total of 32%.

Table 6: Bike Volumes Before and After Quick-Build Installations (2022)

Quick Build Project	Implementation Date	Daily Bike Volumes		
		Before	After	Change
7th Street Safety Project (Phase 1)	5/17/2022	369	372	1%
8th Street Safety Project	5/17/2022	539	576	7%
Folsom Near-Term	1/18/2022	373	444	19%
Polk Streetscape	5/19/2022	471	480	2%
2nd Street	4/19/2022	401	529	32%
Masonic Streetscape	8/18/2022	23	112	387%
Leavenworth Quick-Build	6/21/2022	22	36	64%
Golden Gate Ave Quick-Build	5/21/2022	31	52	68%
Valencia (north) Quick-Build	5/19/2022	642	1148	79%
6th Street Quick-Build	9/19/2022	146	157	8%

Quick Build Project	Implementation Date	Daily Bike Volumes		
		Before	After	Change
Taylor Quick-Build	6/19/2022	17	52	206%
Indiana Quick-Build	10/19/2022	66	94	42%
Fell Street	8/20/2022	790	1087	38%
TOTAL		3,890	5,139	32%

Table 7 shows bike volumes collected for 25 slow streets in 2022. Slow Streets with the highest volumes include Shotwell Street, Clay Street, Lake Street, and Page Street. Shotwell Street and Page Street are located in some of San Francisco's most dense urban neighborhoods. Together, Lake Street and Clay Street provide a key east-west connection across the city. Excelsior Avenue, Arkansas Street, Mariposa Street, Somerset Street, and Tompkins Avenue have some of the lowest bike volumes of all the Slow Streets. These streets are concentrated in the southeast of the city in neighborhoods with low bike volumes overall.

Table 7: Bike Volumes on Slow Streets (2022)

Slow Street (2022)	Avg. Day* Observed Bicycle Volume (24-Hr)	Standard Deviations from Mean	Volume**
Excelsior Avenue	5	-0.697	Low
Arkansas Street	10	-0.665	Low
Mariposa Street	10	-0.665	Low
Somerset Street	20	-0.603	Low
Tompkins Avenue	20	-0.603	Low
Ortega Street	30	-0.541	Moderate
Duncan Street	40	-0.478	Moderate
Noe Street	40	-0.478	Moderate
41Street Avenue	50	-0.416	Moderate
Arlington Street	50	-0.416	Moderate
Minnesota Street	60	-0.353	Moderate
20th Avenue	70	-0.291	Moderate
Chenery Street	70	-0.291	Moderate
Golden Gate	80	-0.228	Moderate
Kirkham Street	80	-0.228	Moderate
Lombard Street	100	-0.104	Moderate
Pacific Avenue	100	-0.104	Moderate
Cabrillo Street	110	-0.041	Moderate
20th Street	120	0.021	Moderate
23rd Avenue	120	0.021	Moderate
Sanchez Street	120	0.021	Moderate
Shotwell Street	130	0.084	High
Clay Street	250	0.833	High
Lake Street	550	2.705	High
Page Street	680	3.517	High

*Day = average of the weekday and weekend volumes

**High = 0.5 Standard Deviations (STD) above the mean; Moderate = Between 0.5 STD and -0.5 STD; Low = Greater than -0.5 STD

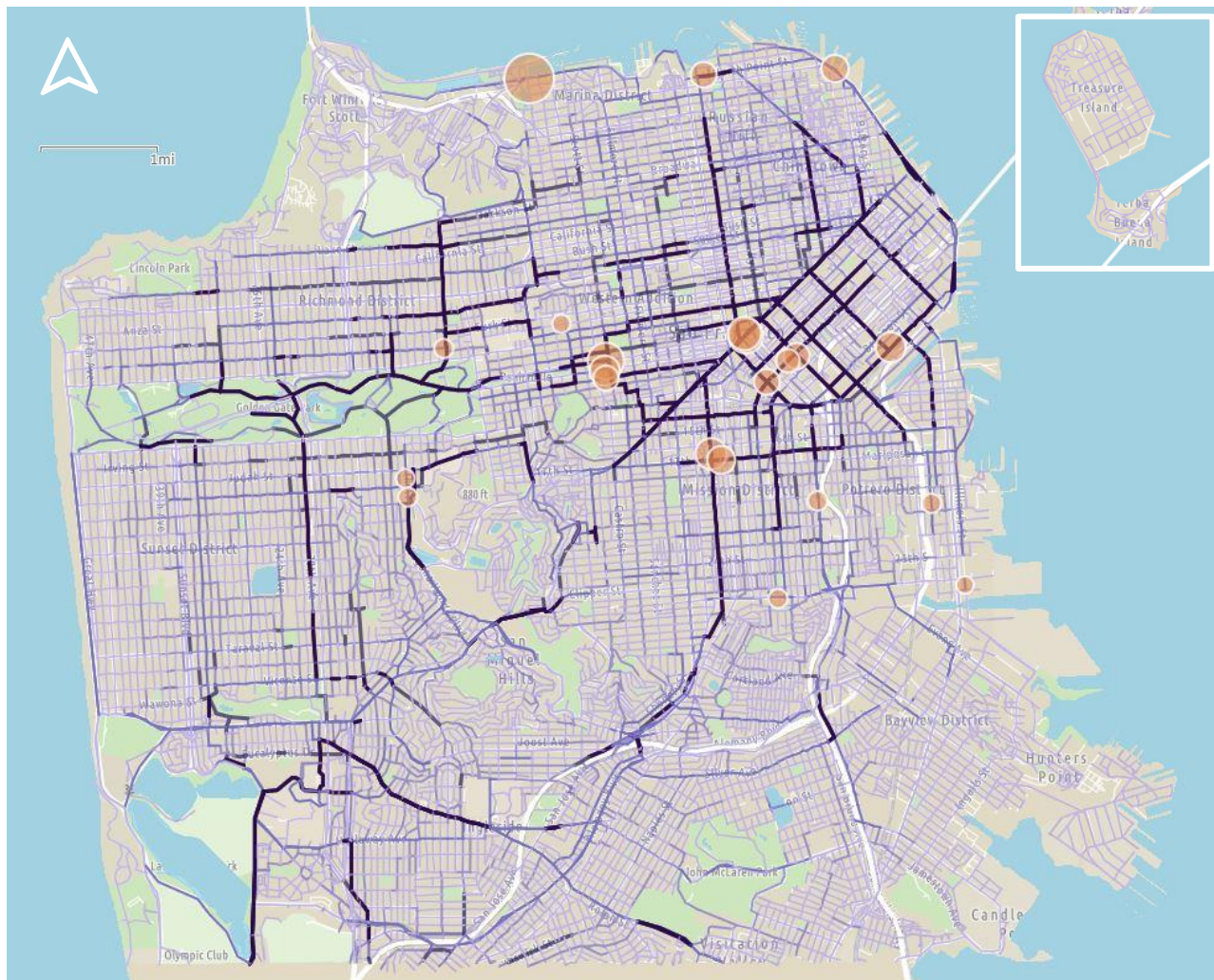
Combined Bicycle and Micromobility Activity

To tell a cohesive story of active transportation activity in San Francisco, the project team modelled combined bicycle and micromobility volumes for San Francisco’s active transportation network. The model combines micromobility volumes with bike volumes estimated by Replica, an activity-based travel demand model. Because Replica’s bike count data is only moderately reliable, the project team calibrated the volumes against actual counts collected by the SFMTA. Calibrated against 31 manual counts, the project team found a linear regression model using the sum of both network-level volumes performed the best (i.e., produced volumes that aligned most closely with manual count data):

$$\text{Bike Volume} = 165.6 + 0.6 * (\text{micromobility volume} + \text{Replica volume})$$

The results of the modelled volumes are shown in Figure 7. Actual count data collected from 22 manual counters is also shown in Figure 7.

Figure 7: Modelled Bike and Micromobility Volumes and Manual Counter Volumes



Modelled Bike & Micromobility Volumes (2022)

- High
- Medium
- Low
- No data

Manual Counter Volumes (2022)

- > 2,283
- 1,700
- 1,200
- 600
- < 35

Network Performance: Volumes vs Quality

The network analysis is built on the assumption that there is a relationship between ridership volumes, and the quality, connectivity, and coverage of the network. Positive associations between volumes and network quality may indicate that the network is working well. Negative associations may indicate that the network is underperforming, could be improved, or that there is a mismatch between rider need, facility type, and surrounding conditions.

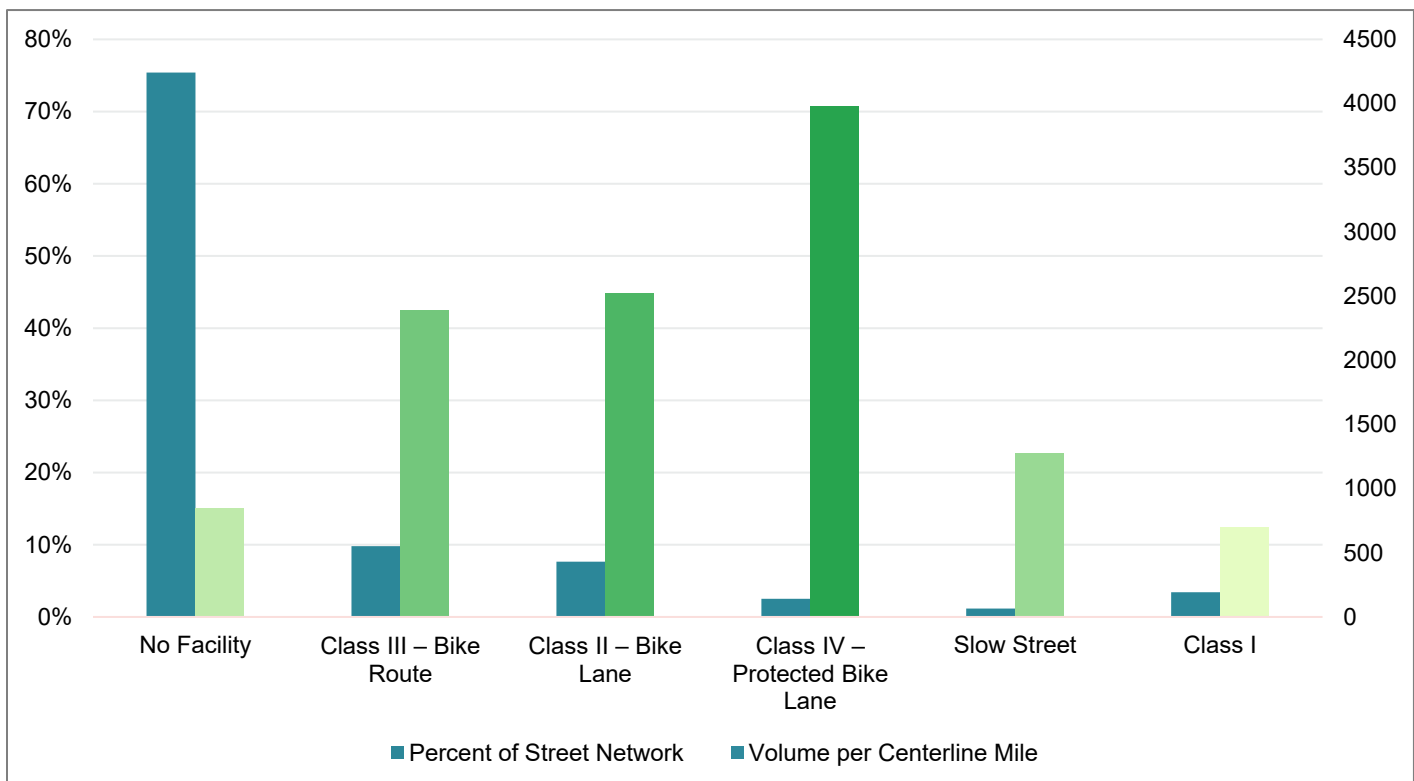
Most trips in San Francisco take place off-network because most streets in the city do not have bike facilities. There are simply more miles of off-network streets than any of the facility types. But when volume is normalized by centerline mileage, the data show that there is an association between ridership and quality facilities. Facilities with protection from cars – protected bike lanes – have the highest ridership per centerline mile than any other facility type. Ridership per centerline mile increases as protection from cars increases.

The exception to this finding is Class I Bike Paths. This is likely because bike paths in San Francisco are concentrated in the city’s parks; Bike paths through the Presidio, Golden Gate Park, and Lake Merced may not offer quick and convenient connections to destinations and are more suitable for recreation than for daily transportation or commuting. Golden Gate Park is also outside of the shared micromobility service area which could explain lower volumes on those paths.

Table 8: Bike and Micromobility Volumes by Facility

Bike Facility (Least modal separation to most)	Centerline Miles*	Bike+ Micromobility Volumes (2022)	Bike+ Micromobility Volume Per Centerline Mile (2022)
No Facility	890.5	750,494	843
Slow Street	13.8	17,568	1,273
Class III – Bike Route	115.9	277,073	2,391
Class II – Bike Lane	90.3	227,938	2,524
Class IV – Separated Bikeway	29.8	118,554	3,978
Class I – Off-Street Bike Path	40.5	28,162	695

Figure 8: Facility Type as Percent of Street Network vs. Volumes per Centerline Mile



High-Quality Network Performance

The project team compared bike and micromobility volumes to network quality and facility type. Network quality is defined here as streets with:

- Class IV Separated Bikeways,
- Class I Shared-Use Paths,
- Slow Streets, and
- Car-Free Streets (such as JFK and the Great Highway/Walkway).

Figure 9 shows volumes on the network's high-quality facilities. Darker lines represent high volumes and indicate places where the high-quality network is performing well. Lighter lines represent low volumes and indicate places where the high-quality network may be under-performing. The highest performing network segments are concentrated in SoMa, and on many of the city's Slow Streets. The lowest-performing network segments are scattered throughout the city and need to be evaluated on a case-by-case basis to understand why volumes may be low, and how these facilities could be improved.

Class IV Separated Bikeway Performance

Overall, Class IV bike facilities in the Financial District and SoMa have the highest volumes in the city, likely due to the density of land uses, people, housing, jobs, and destinations. The project team examined the low-performing protected bike lanes to understand what might be discouraging ridership. The following examples can offer lessons learned for implementation and maintenance of facilities throughout the city:

- On Turk Street and Golden Gate Avenue in the Tenderloin, low volumes may be due to the *barrier type not being appropriate for surrounding activity*. Both streets have flex posts which are often ignored or damaged. On both streets parking in the bike lane is common, curbside turnover is high, and there are frequent 311 reports of debris in the bike lane.
- On Alemany Boulevard and San Jose Avenue in St Mary's Park/ Glen Park/ Mission Terrace, barrier type may also play a role. In these cases, vehicular volumes and speeds are high, the flex posts may not offer riders the separation they need to feel comfortable.
- In Hunters Point, Evans Avenue and Cargo Way both have concrete barriers separating riders from vehicular traffic. In these locations, low ridership is likely due to other factors, such as surrounding land use (low density), long distances from destinations, and overall network quality. In particular, the Class IV segments are surrounded by lower-comfort Class III bike routes. Enhancements to surrounding facilities could encourage more ridership throughout the neighborhood.

Class I Bike Path (and Car-Free Streets) Performance

For Class I bike paths, the high-performing segments include Car-Free JFK in Golden Gate Park, Lake Merced Boulevard along Lake Merced, Mason Boulevard in the Presidio along Crissy Fields, and segments along the embarcadero and Fisherman's Warf, possibly due to the flat, accessible paths and proximity to recreational sites and tourist attractions. Low volume Class I paths include O'Shaughnessy Boulevard in Glen Canyon Park and Twin Peaks Boulevard in Twin Peaks, possibly due to the steep hills.

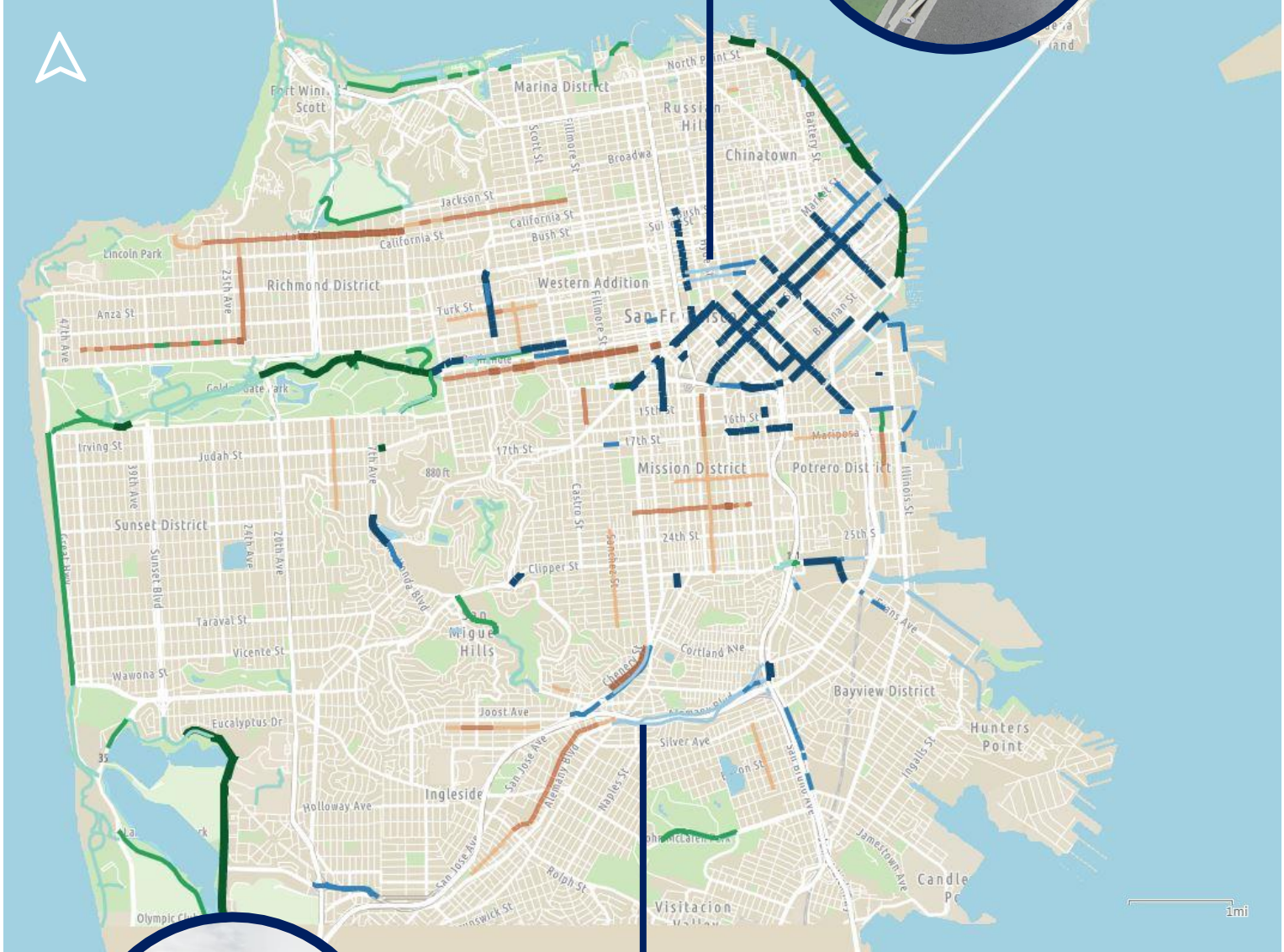
Slow Streets Performance

Evaluating the performance of Slow Streets requires a slightly different approach. Low bicycle and micromobility volumes may not be an indication that the Slow Street is under-performing. Particularly in low-density neighborhoods, low volumes may be appropriate for the neighborhood context. On low-volume Slow Streets, community feedback is required to understand whether there are specific reasons why people choose not to ride on the street. However, Slow Streets with particularly high bicycle and micromobility volumes can be an indication of high-demand and high-need for safety infrastructure. The Slow Streets that are estimated to have the highest volumes include Lake Street and Page Street. This estimation is consistent with manual bike counts on slow streets (Table 7).

Class IV Separated Bikeways on Turk Street in the Tenderloin



Figure 9: High Quality Network Volumes



Class VI Separated Bikeway on Alemany Blvd

Modelled Bike and Micromobility Volumes

Class IV Bikeway	Class I Path	Slow Street
High (Dark Blue)	High (Dark Green)	High (Dark Orange)
Medium (Medium Blue)	Medium (Medium Green)	Medium (Medium Orange)
Low (Light Blue)	Low (Light Green)	Low (Light Orange)

Bike Lanes and Bike Route Performance

Figure 10 shows volumes on the rest of the network, including all Class II Bike Lanes and Class III Bike Routes. The project team classified Class II and Class III facilities with high volumes as “over-performing”. On these streets, high volumes indicate that despite relatively low separation from cars, riders still choose these routes due to some combination of convenience, necessity, and comfort. Over-performing streets with Class II Bike Lanes and/or Class III Bike Routes include:

- Arguello Boulevard and Anza Street in the Richmond
- Sutter Street, Post Street, and McAllister Street which run parallel from Market Street towards NoPa/ South Pacific Heights
- North-South routes in the Sunset including 20th Avenue and 34th Avenue
- Valencia Street, Folsom Street, and Harrison Street in the Mission
- Columbus Avenue from the Financial District to North Beach
- Stockton Street in Chinatown
- Segments of Market Street, Page Street, Polk Street, 11th Street in downtown San Francisco
- Ocean Avenue in Ingleside/ Balboa Terrace

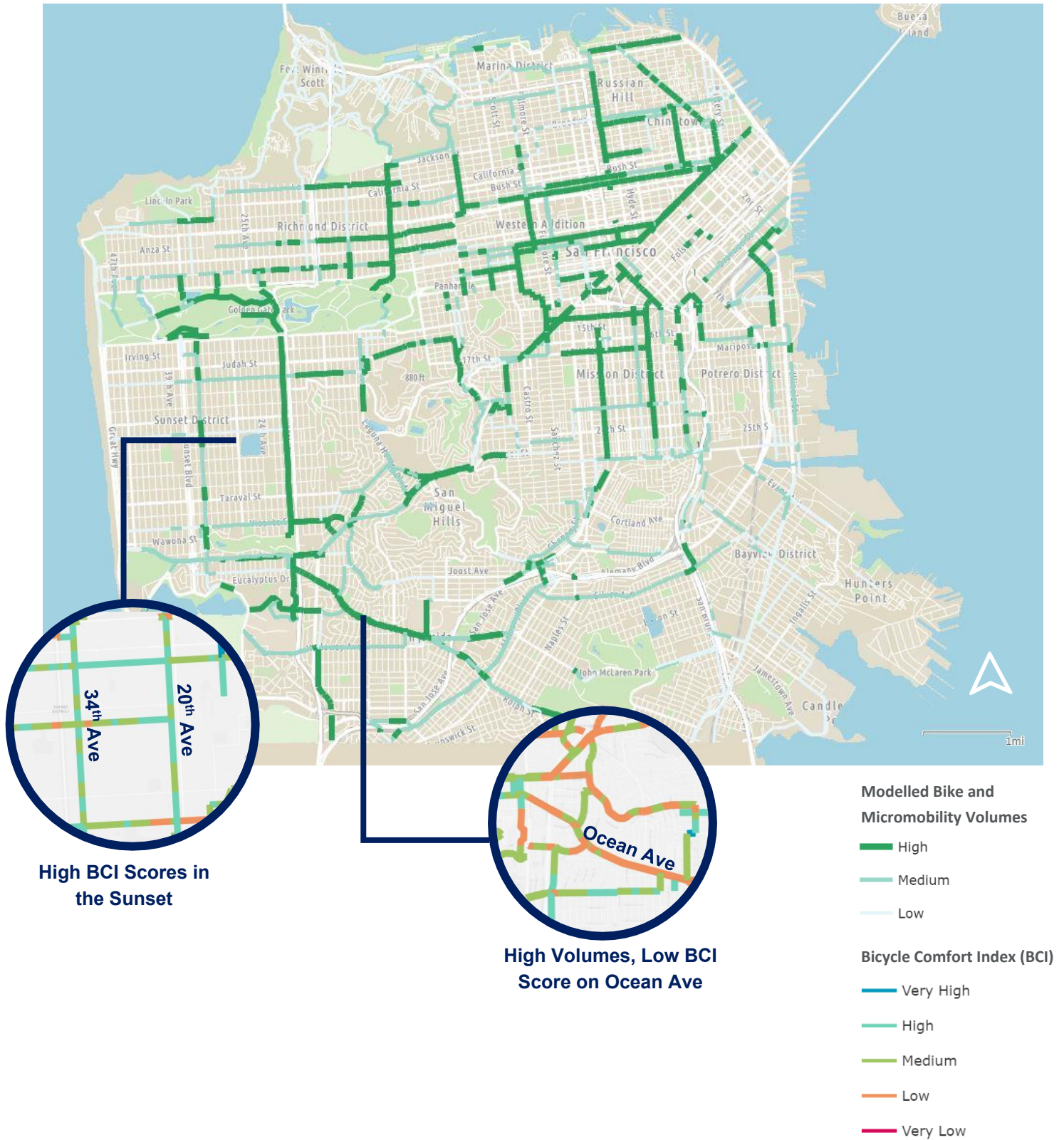
Over-performing streets need to be evaluated on a case-by-case basis to understand what is driving volumes, and whether high volumes indicate a gap in the network. In the dense urban center (on streets like Market and Valencia), high volumes are likely a result of surrounding density, as well as connections to higher-quality facilities. Bike and micromobility trips in these neighborhoods likely traverse multiple facility types of varying quality and comfort.

In lower-density neighborhoods like the Richmond, the Sunset, Ingleside, and Balboa Terrace, high ridership may be an indication of demand for bike facilities. But it may also be an indication that Class II and Class III facilities *are working* in these neighborhoods, and are appropriate facilities for the surrounding land use and traffic contexts. The Bicycle Comfort Index inset in Figure 10 shows 20th Avenue and 34th Avenue in the Sunset are high-comfort streets and may already have appropriate facilities. Public input is necessary to confirm this assumption.

Ocean Avenue is a good example of a street with relatively high ridership, despite having a Class III Bike Route and a relatively low bicycle comfort score. In addition, volumes on Ocean Avenue drop substantially west of 19th Avenue, even though the facility type upgrades to a Class II Bike Lane. Taken together, these factors may indicate a network gap and the need for an improved facility on Ocean Avenue. Public input is necessary to confirm this assumption.

Class II and Class III facilities with low ridership may be an indication that network upgrades are necessary. Ridership is relatively low on facilities throughout Bayview-Hunters Point, on the east-west corridors in the Sunset, and on Brannan Street in SoMa. Further analysis is necessary to determine the reason for low ridership in each case.

Figure 10: Bike Lane and Bike Route Volumes

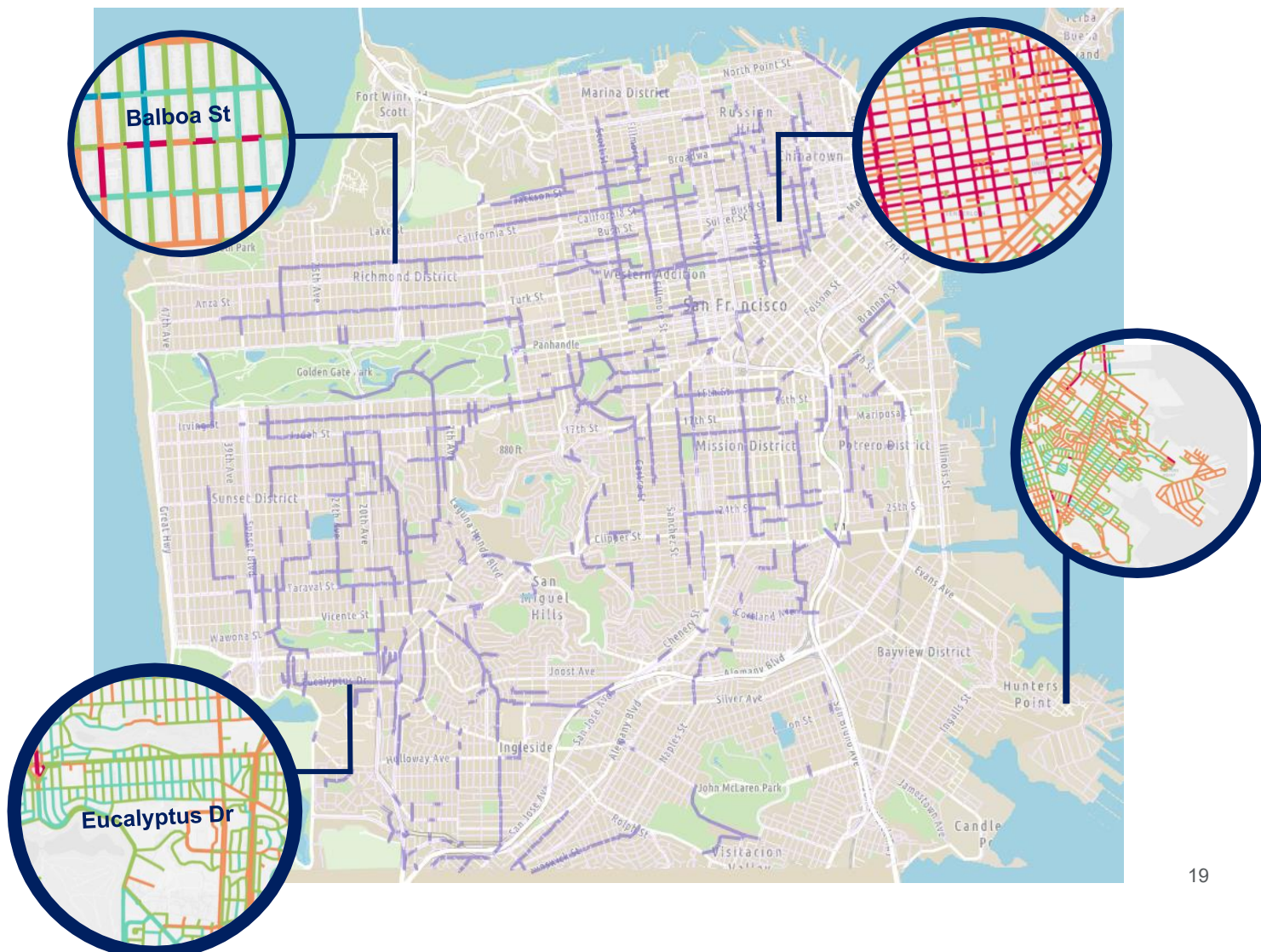


Off-Network Performance

Figure 11 shows modelled volumes outside of the active transportation network. Off-network streets are critical part of how San Franciscan's get around. In fact, most bike and micromobility trips take place off-network. To understand *why* volumes are high or low on certain streets (or in certain neighborhoods), the project team looked at the volume data alongside the Bicycle Comfort Index (BCI). BCI scores are shown as insets on Figure 11. It can be difficult to determine the precise reason for ridership trends, but the following correlations can be useful markers of infrastructure issues or network gaps:

- **High-Volumes, Low-Comfort:** Where volumes are high, but the BCI score is low, it may indicate that there is a need for infrastructure enhancements. Examples include Balboa Street and Clement Street in the Richmond, Yerba Buena Avenue in Sherwood Forest/ Monterey Heights, 24th Street in the Mission, and most of the off-network streets in the Tenderloin.
- **High-Volumes, High-Comfort:** Where volumes are high, and the BCI is high, it may indicate that the current infrastructure conditions are working. Examples include 42nd Avenue in the Sunset, Eucalyptus Drive in Lakeshore, Cabo Street in the Mission, and Eddy Street in Western Addition.
- **Low Volumes, Low Comfort:** Where volumes are low, and comfort is low, it may indicate that there are issues discouraging riders from choosing a particular route. Many parts of the Bayview-Hunter's Point neighborhood fall into this category.
- **Low-Volumes, High Comfort:** Low volumes where comfort is high may simply reflect a low population and land use context. In high-density neighborhoods, low volumes *could* indicate an issue that is preventing riders from choosing a specific route. It may also be the case that there are on-network facilities or more convenient routes nearby. For example, in SoMa, off-network volumes are notably low, but on-network volumes are some of the highest in the city.

Figure 11: Off-Network Volumes



Network Performance: Volumes vs Coverage

The project team calculated network coverage for each neighborhood in San Francisco. Network coverage is defined here as the percent of centerline miles in a neighborhood that have bicycle facilities. Figure 12 shows the network coverage overlaid with network volumes on the bike network. Table 9 provides a guide for reading the map, and summary of locations that are over- or under- performing. When volumes are low, but network coverage is relatively high, it may be an indication that the network is under-performing due to factors like land use (long distances between key destinations), connectivity (poor connections to destinations outside of the neighborhood), or network quality (such as lack of protected from cars). Low volumes may also simply be the result of low population density.

Neighborhoods where volumes are low relative to coverage include Bayview-Hunters Point, Mission Terrace/Cayuga/Outer Mission, and the east-west corridors in the Sunset District. As part of network development, the project team will assess the precise reason for poor network performance, and identify appropriate policy, program, or infrastructure recommendations.

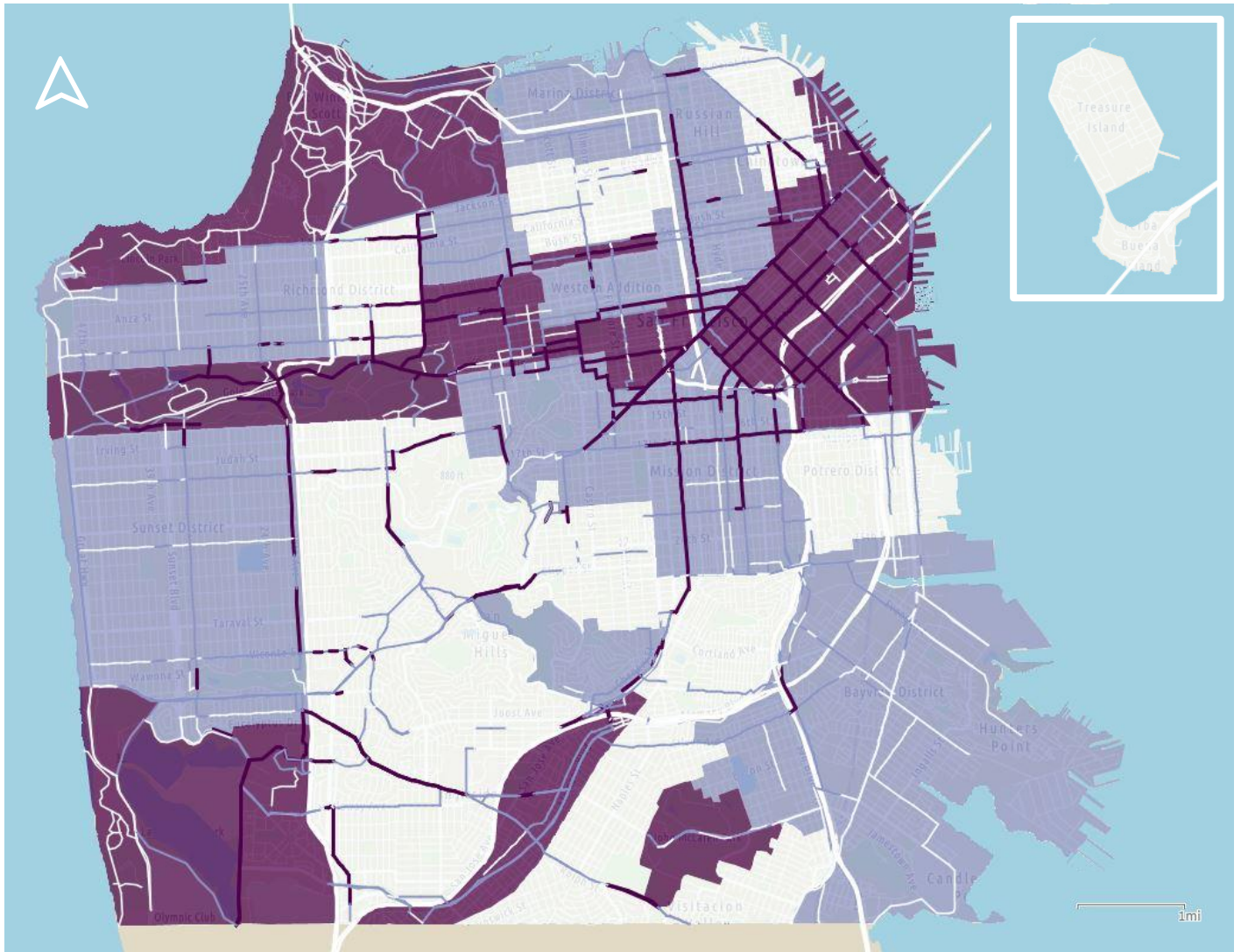
Note that this metric should not be used to evaluate network performance in parks. By definition, parks have relatively few streets or centerline miles, and relatively high network coverage. As a result, San Francisco parks (The Presidio, Golden Gate Park, Lakeshore, McLaren Park) appear to be “under-performing”.

Table 9: Network Performance Based on Coverage and Volumes

Network Performance	Volumes* vs Network Coverage	Map Symbology	Example Neighborhoods and Streets
Over-Performing	Volumes are high, relative to network coverage	Lines are darker than the polygon	<ul style="list-style-type: none"> • Northeast San Francisco • The Mission District • Inner Richmond • Inner Sunset • Balboa Terrace/ Ingleside • North-South Streets in the Sunset • The “Wiggle”
Under-Performing	Volumes are low, relative to network coverage	Lines are lighter than the polygon	<ul style="list-style-type: none"> • Bayview-Hunters Point • Mission Terrace/ Cayuga/ Outer Mission • East-West Streets in the Sunset

*Modelled (combined) bike and micromobility volumes

Figure 12: Caption: Network Coverage vs Network Volumes



Modelled Bike and Micromobility Volumes (On Network)

- High
- Medium
- Low
- No data

Neighborhood-Level Network Coverage

- High
- Medium
- Low

Appendix A: Neighborhood-Level Network Performance Metrics

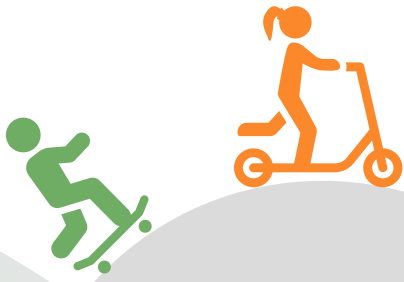
Table A-1: Neighborhood-Level Network Performance

Neighborhood	Network Coverage	Network Quality	Volumes		
	Percent of Centerline Miles with Bike Facilities	Percent of Lane Miles with High Quality Facilities (Class I, Class IV, Slow Street, or Car-Free Street)	Bike Commute Mode share (2021)	Percent Bike Commuters that Are Female (2021)	Modeled Average Daily Bike and Micromobility Volumes Per Centerline Mile (2022)
Citywide Average	24%	8%	3.1%	30.9%	NA
Six Focus Equity Priority Communities					
Bayview-Hunters Point	23%	5%	1.3%	25.6%	761
Outer Mission/ Excelsior	19%	4%	0.8%	23.1%	1,223
Mission District	30%	8%	7.9%	23%	4,059
SoMa	36%	22%	4.1%	26.1%	5,265
Tenderloin	28%	10%	3.4%	22.1%	6,104
Western Addition/ Filmore	19%	0%	4.3%	42.5%	3,268
Other Neighborhoods					
Bernal Heights	16%	6%	5.7%	39.1%	1,426
Castro/Upper Market	19%	2%	4.2%	29.0%	2,592
Chinatown	18%	0%	0.4%	0.0%	5,139
Financial District/South	39%	12%	2.7%	29.9%	3,672
Glen Park	25%	13%	2.4%	54.8%	1,107
Golden Gate Park	55%	33%	0.0%	100.0%	1,382
Haight Ashbury	24%	9%	6.8%	37.6%	3,696
Hayes Valley	34%	7%	8.1%	28.6%	4,013
Inner Richmond	19%	0%	4.2%	25.8%	3,184
Inner Sunset	11%	2%	4.2%	26.0%	1,565
Japantown	40%	0%	4.7%	0.0%	4,853
Lakeshore	52%	25%	0.7%	18.7%	1,158
Lincoln Park	60%	25%	0.0%	100.0%	810
Lone Mountain/USF	38%	11%	6.0%	35.5%	4,053
Marina	18%	4%	2.9%	11.0%	2,263
McLaren Park	42%	23%	0.0%	100.0%	419
Mission Bay	31%	13%	2.1%	23.4%	2,927
Nob Hill	27%	0%	2.8%	43.7%	4,702
Noe Valley	19%	3%	4.2%	41.1%	1,715
North Beach	14%	3%	3.4%	14.4%	2,874
Oceanview/Merced/Ingleside	19%	3%	0.8%	27.8%	1,314
Outer Richmond	21%	4%	2.4%	35.1%	2,164
Pacific Heights	14%	5%	1.7%	10.5%	3,662
Portola	21%	9%	0.8%	0.0%	764
Potrero Hill	18%	6%	6.9%	27.5%	2,175
Presidio	58%	25%	3.9%	30.5%	696
Presidio Heights	24%	6%	1.5%	100.0%	3,353
Russian Hill	21%	2%	3.7%	44.3%	3,473
Seacliff	33%	1%	0.0%	100.0%	2,097
Sunset/Parkside	20%	1%	2.1%	24.8%	1425
Treasure Island	7%	5%	3.1%	40.0%	No Data
Twin Peaks	14%	7%	1.5%	0.0%	631
Visitacion Valley	7%	0%	0.1%	0.0%	259
West of Twin Peaks	19%	3%	1.4%	36.8%	1,166

Notes on Coverage Methodology:

- Network coverage was calculated as [roadway centerline miles/ facility centerline miles]
 - Network Coverage = 289/ 1,165 = 24.8%
- Total Roadway Centerline Miles = 1,165
 - For dual-carriageway streets, both carriageways are counted toward the total centerline mileage. There are 95 miles of dual carriageway streets in San Francisco = 189 total centerline miles of dual carriageways.
 - For all other streets, including one-way streets, centerline miles are only counted once.
- Total Facility Centerline Miles = 289
 - For streets with the same facility on both sides, centerline miles are counted once.
 - For dual carriageway streets, centerline miles are counted for both sides. This shouldn't inflate the percent coverage because centerline road miles (the denominator) are also counted twice.
 - For streets with different facilities on two sides, counting centerline mile twice. 15 centerline miles of roads have different facilities on two sides of the street. Therefore, total is inflated by 15 miles.
 - If we reduce the total mileage by 15 to remove this inflation, the total citywide coverage is 23.5%
 - For streets with facility only on one side, centerline miles are counted once.
- Network Coverage = 289/ 1,165 = 24.8%
 - Note that Class I facilities are concentrated in parks where roadway centerline mileage is relatively low. In parks (the Presidio, Lincoln Park, Golden Gate Park, and Lakeshore), the network coverage is very high. In addition, Class I paths tend to be concentrated outside of the areas typically thought of as the city's street network.
 - Including Class I facilities in the total facility coverage could make overall coverage appear inflated.
 - If we remove Class I facilities from the equation:
 - Total centerline miles *excluding* Class I = 248
 - Citywide coverage *excluding* Class I = 21%

Appendix L



Appendix L • North Star Index

The following is an index of roadway segments that appear on the North Star map (pages 68–69). If discrepancies between this index and the map occur, defer to the map.

Street	From	To	Existing Facility	North Star Facility	New? (Y/N)	Upgrade? (Y/N)
2nd St	Market	Townsend	Separated / Protected	Separated	N	Y
3rd Ave	Lincoln	Hugo	Class III	Shared	N	Y
3rd St Bridge	Islais Creek Trail	Cargo	None	Separated	Y	N
4th St	Channel	Mission Bay N	Lanes	Undecided	N	Y
4th St	Mission Bay N	Mission Bay S	Separated	Separated	N	Y
4th St	Mission Bay S	16th St	Lanes	Undecided	N	Y
4th St	16th St	Mariposa	Path	Path	N	N
5th Ave	Lincoln	Hugo	Class III	Undecided	N	N
5th St	Market	Townsend	Separated	Separated	N	Y
6th Ave	Lincoln	Kirkham	Class II / Class III	Undecided	N	N
7th Ave	Lincoln	Kirkham	Class III	Shared	N	Y
7th St	Market	16th St	Protected	Separated	N	N
8th Ave	Lake	JFK	Class III	Shared	N	Y
8th St	Market	Townsend	Protected	Separated	N	N
11th St	Market	Division	Class II / Separated	Separated	N	Y
12th Ave	Lincoln	Lawton	Slow Street	Slow Street	N	N
15th Ave	Lake	Cabrillo	Class III	Shared	N	N
16th St	Missouri	Terry A Francois	Separated	Separated	N	Y
17th St	Corbett	Market	Class II / Class III	Shared	N	Y
17th St	Castro	Sanchez	Class III	Undecided	N	Y
17th St	Sanchez	Church	Protected	Separated	N	N
17th St	Church	Valencia	Lanes	Undecided	N	Y
17th St	Valencia	Harrison	Lanes	Undecided	N	N
17th St	Harrison	Bryant	Separated	Separated	N	N
17th St	Bryant	Potrero	Lanes / Separated	Undecided	N	N
17th St	Potrero	Mississippi	Lanes / Separated	Separated	N	Y
19th Ave	Beverly	Randolph	Class III	Shared	N	Y
19th St	Eureka	Church	None	Shared	Y	N
20th Ave	Lincoln	Wawona	Neighborway	Shared	N	N
20th Ave	Sloat	Stonestown	Class III	Shared	N	Y
20th St	Shotwell	Potrero	Slow Street	Slow Street	N	N
22nd Ave	Cabrillo	Fulton	None	Shared	Y	N
22nd St	Indiana	Minnesota	None	Shared	Y	N
22nd St	Chattanooga	Potrero	Class III	Undecided	N	Y
23rd Ave	Lake	Cabrillo	Slow Street	Slow Street	N	N
23rd St	Eureka	Sanchez	None / Class III	Shared	N	Y
23rd St	Potrero	Kansas	Lanes	Shared	N	Y
23rd st	Indiana	Illinois	None / Class III	Shared	N	Y
28th Ave	Lincoln	Vicente	Class III	Shared	N	Y
30th Ave	El Camino Del Mar	Clement	Class III	Shared	N	N
30th Ave	Cabrillo	Fulton	Class III	Shared	N	N
30th St	Sanchez	Church	Class III	Shared	N	Y
34th Ave	Clement	Cabrillo	Class III	Shared	N	N
34th Ave	Lincoln	Sloat	Class III	Shared	N	Y
36th Ave	Cabrillo	Fulton	Class III	Shared	N	N
41st Ave	Lincoln	Vicente	Class III	Shared	N	Y
42nd Ave	Clement	Point Lobos	Class III	Shared	N	N
43rd Ave	Cabrillo	Fulton	Class III	Shared	N	N
47th Ave	Cabrillo	Fulton	Class III	Undecided	N	N
47th Ave	Lincoln	Vicente	Class III	Shared	N	Y
Agnon	Crescent	Justin	None	Shared	Y	N
Alabama	Mullen	Cesar Chavez	None	Shared	Y	N
Alana	Executive Park	Harney	None	Shared	Y	N
Aleman	Brotherhood	Sagamore	Class III	Separated	N	Y
Aleman	Sickles	Rousseau	Lanes	None	N	Y
Aleman	Rousseau	Congdon	Separated	Separated	N	Y
Aleman EB	Congdon	Putnam	Protected	Separated	N	Y
Aleman EB	Putnam	Bayshore	Separated	Separated	N	Y
Aleman WB	Congdon	Ellsworth	Lanes	Separated	N	Y
Aleman WB	Ellsworth	Putnam	Lanes	Undecided	N	Y
Aleman WB	Putnam	Bayshore	Separated	Separated	N	Y
Alhambra	Scott	Cervantes	Class III	Shared	N	Y
Anderson	Eugenia	Bernal Heights	None	Shared	Y	N
Anza	30th Ave	Masonic	Lanes	Shared	N	Y
Aquatic Park Path	Van Ness	Jefferson	Path	Path	N	Y
Arelious Walker	Gilman	Carroll	Class III	Separated	N	Y

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Street	From	To	Existing Facility	North Star Facility	New? (Y/N)	Upgrade? (Y/N)
Arguello	Presidio	GGP	Lanes	Separated	N	Y
Arlington	Wilder	Roanoke	None / Class III	Shared	N	Y
Arlington	Roanoke	Randall	Slow Street	Slow Street	N	Y
Ashbury	Page	Clayton	Class III	Shared	N	Y
Ashton	Urbano	Holloway	None	Shared	Y	N
Athens	Naples	Rolph	Class III	Shared	N	Y
Avila	Marina	Alhambra	None	Shared	Y	N
Baker	Golden Gate	Fell	Lanes	Shared	N	Y
Balboa	La Playa	Great Highway	Class III	Shared	N	N
Ballpark Path	Embarcadero	3rd St	Path	Path	N	N
Barneveld	Gaven	Silver	None	Shared	Y	N
Battery	Embarcadero	Market	Separated	Separated	N	Y
Bay	Fillmore	Laguna	Separated	Separated	N	N
Bayshore	Paul	Silver	Class II / Separated	Separated	N	Y
Bayshore	Silver	Oakdale	Protected	Separated	N	Y
Beach	Polk	Hyde	Class III	Separated	N	Y
Beale	Market	Howard	Separated	Separated	N	Y
Beale	Howard	Folsom	None	Separated	Y	N
Beale	Folsom	Bryant	Lanes	Separated	N	Y
Bernal Heights	Anderson	Bradford	None	Shared	Y	N
Berry	3rd St	4th St	Separated	Separated	N	N
Beverly	Holloway	19th Ave	Class III	Shared	N	Y
Blanken	Bayshore	Executive Park	Class III	Shared	N	Y
Bocana	Holly Park	Eugenia	None	Shared	Y	N
Bosworth	O'Shaughnessy	Glen Canyon Trailhead	None	Shared	Y	N
Brannan	8th St	7th St	Separated	Separated	N	N
Brewster	Rutledge	Mullen	None	Shared	Y	N
Brotherhood	Lake Merced	Aleman	Separated	Separated	N	Y
Brunswick	---	Newton	Class III	Shared	N	Y
Cabrillo	49th Ave	45th Ave	Lanes	Shared	N	Y
Cabrillo	45th Ave	23rd Ave	Slow Street	Slow Street	N	N
Cabrillo	23rd Ave	Arguello	Lanes	Shared	N	Y
Cabrillo	La Playa	Great Highway	Path	Path	N	N
Cambridge	John F Shelley	St Mary's Park Footbridge	None	Shared	Y	N
Candlestick Point Development			None	Separated	Y	N
Cargo	3rd St	Jennings	Protected	Separated	N	N
Carroll	Keith	Arelious Walker	Class III	Shared	N	Y
Cayuga	Naglee	Rousseau	Slow Street	Slow Street	N	N
Cervantes	Alhambra	Fillmore	Class II / Class III	Shared	N	Y
Cesar Chavez	Guerrero	Valencia	Lanes	Shared	N	Y
Cesar Chavez	Bayshore	I-280	Separated	Separated	N	Y
Cesar Chavez	I-280	Illinois	Class II / Class III	Separated	N	Y
Cesar Chavez / I-280 Underpass			Path	Path	N	N
Chain of Lakes Path (West)	Fulton	Chain of Lakes Dr E	Path	Path	N	Y
Channel	Mission Bay	4th St	Class III	Separated	N	Y
Chattanooga	Jersey	22nd St	Class III	Shared	N	Y
Chenery	Elk	Diamond	None / Class III	Shared	N	Y
Church	Hermann	Duboce	Class III	Shared	N	Y
Circular	Hearst	Monterey	Class III	Separated	N	Y
Claremont	Kensington	Portola	Class II / Class III	Shared	N	Y
Clarendon	Twin Peaks	Clayton	Class III	Undecided	N	Y
Clay	Arguello	Steiner	Slow Street	Slow Street	N	N
Clay	Steiner	Webster	Class III	Shared	N	Y
Clayton	Ashbury	Corbett	Class III	Undecided	N	Y
Clayton	Parnassus	Ashbury	Class III	Shared	N	Y
Clement	48th Ave	30th Ave	Class III	Shared	N	N
Clipper	Portola	Douglass	Class II / Separated	Separated	N	Y
Clipper	Douglass	Sanchez	Class III	Shared	N	N
Congdon	Aleman	Aleman	Lanes	Separated	N	Y
Connecticut	17th St	20th St	None	Shared	Y	N
Corbett	Market	17th St	Class III	Shared	N	Y
Coso / Stoneman	Elsie	Folsom	None	Shared	Y	N
Crescent	Murray	Putnam	Class III	Shared	N	Y

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Street	From	To	Existing Facility	North Star Facility	New? (Y/N)	Upgrade? (Y/N)
De Long	---	San Jose	Class III	Shared	N	Y
Dewey	Laguna Honda	Taraval	Lanes	Shared	N	Y
Diamond	23rd St	Clipper	Class III	Shared	N	Y
Division	Folsom	Townsend	Separated	Separated	N	N
Drumm	Washington	Jackson	None	Shared	Y	N
Duboce / 13th St	Market	Folsom	None	Separated	Y	N
Duboce	Sanchez	Church	Protected	Separated	N	N
Duboce Path	Church	Market	Path	Path	N	N
Duncan	Guerrero	Valencia	Class III	Shared	N	Y
El Camino del Mar	Lands End	Presidio	Class II / Class III	Shared	N	N
Ellsworth	Bernal Heights	Eugenia	None	Shared	Y	N
Elsie	Eugenia	Coso	None	Shared	Y	N
Embarcadero	Jefferson	Broadway	Lanes	Separated	N	Y
Embarcadero	Broadway	Harrison	Protected	Separated	N	Y
Embarcadero	Harrison	King	Lanes	Separated	N	Y
Esmerelda / Franconia	Bradford	Rutledge	None	Shared	Y	N
Euclid	Arguello	Presidio	Lanes	Shared	N	N
Eugenia	Elsie	Gates	None	Shared	Y	N
Eureka	17th St	23rd St	Class III	Shared	N	N
Evans	Cesar Chavez	Hunters Point	Class II / Separated	Separated	N	Y
Evelyn	Portola	Teresita	None	Shared	Y	N
Executive Park	Blanken	Alana	Class III	Shared	N	Y
Existing GGP Paths			Path	Path	N	N
Farallones	Orizaba	Cayuga Park	None	Shared	Y	N
Fell	Stanyan	Scott	Protected	Separated	N	N
Flood	Gennessee	Foerster	None	Shared	Y	N
Foerster	Hearst	Flood	None	Shared	Y	N
Foerster	Teresita	Hearst	Class III	Shared	N	Y
Folsom	Cesar Chavez	Stoneman	Class III	Shared	N	Y
Folsom	Division	12th St	Lanes	Separated	N	Y
Folsom	12th St	Embarcadero	Separated	Separated	N	Y
Font	Lake Merced	Holloway	Class III	Separated	N	Y
Forest Side	Taraval	Vicente	Class III	Shared	N	Y
Fort Mason Path	Laguna	Van Ness	Path	Path	N	N
Francisco	Laguna	Polk	Lanes	Shared	N	Y
Francisco	Lyon	Scott	Class III	Shared	N	Y
Frida Kahlo	Ocean	Judson	Separated	Separated	N	Y
Front	Pacific	Jackson	Lanes	Shared	N	Y
Funston	Cabrillo	Fulton	Class III	Shared	N	N
Gaven	Aleman	San Bruno	None	Shared	Y	N
Geary	Masonic	Presidio	None	Separated	Y	N
Gellert	Ocean	Middlefield	Class III	Shared	N	Y
Geneva	Prague	Santos	Class II / Class III	Shared	N	Y
Girard	Silver	Olmstead	None	Shared	Y	N
Glen Canyon Path	Bosworth	Elk	Path	Path	N	N
Golden Gate	Parker	Divisadero	Slow Street	Slow Street	N	N
Golden Gate	Polk	Market	Separated	Separated	N	N
Great Highway	Balboa	Fulton	Lanes	Separated	N	Y
Great Highway	Fulton	Lincoln	Lanes	Separated	N	Y
Great Highway	Fulton	Lincoln	Path	Path	N	N
Great Highway	Lincoln	Sloat	Path	Path	N	Y
Great Highway	Sloat	Skyline	None	Path	Y	N
Green	Octavia	Polk	Class III	Shared	N	Y
Greenwich	Lyon	Fillmore	Class III	Undecided	N	Y
Greenwich	Fillmore	Larkin	Class III	Shared	N	Y
Guerrero	San Jose	Cesar Chavez	Lanes	Separated	N	Y
Hairball			Lanes / Protected	Separated	N	Y
Harney	Alana	Hunters Point	Class III	Separated	N	Y
Harold	Holloway	Grafton	None	Shared	Y	N
Havelock	W	San Jose	None	Path / Shared	Y	N
Hearst	Ridgewood	Baden	Slow Street	Slow Street	N	N
Hearst	Baden	Circular	Class III	Separated	N	Y
Holloway	Junipero Serra	Ashton	Lanes	Shared	N	Y
Holloway	Ashton	Harold	Class III	Shared	N	Y
Holloway	Font	Junipero Serra	Lanes	Separated	N	Y
Holly Park	Murray	Bocana	None	Shared	Y	N

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Street	From	To	Existing Facility	North Star Facility	New? (Y/N)	Upgrade? (Y/N)
Howard	11th St	Embarcadero	Separated	Separated	N	Y
Hudson	Newhall	Mendell	None	Shared	Y	N
Hugo	7th Ave	3rd Ave	Class III	Shared	N	Y
Hunters Point Development			None	Separated	Y	N
Huron	Sickles	Ottawa	None	Shared	Y	N
Hyde	Jefferson	Beach	None	Separated	Y	N
Illinois	23rd St	Cargo	Lanes	Separated	N	Y
Illinois	20th St	23rd St	Lanes	Undecided	N	Y
Illinois	Mariposa	20th St	Lanes	Separated	N	Y
Indiana	22nd St	23rd St	Class III	Shared	N	Y
Indiana	23rd St	25th St	Class III	Separated	N	Y
Indiana	25th St	Islais Creek Trail	Class III	Shared	N	Y
Innes	Hunters Point	Donahue	Class III	Separated	N	Y
Islais Creek Trail	Cesar Chavez	3rd St	Path	Path	N	Y
Jackson	Montgomery	Front	None	Shared	Y	N
Jefferson	Hyde	Powell	Class III	Undecided	N	Y
Jennings	Cargo	Evans	None	Separated	Y	N
Jersey	Diamond	Chattanooga	Class III	Shared	N	Y
JFK	Transverse	30th Ave	Class III	Separated	N	Y
John F Shelley	Mansell	Mansell	None / Class III	Shared	N	Y
John Muir	Skyline	Lake Merced	Separated	Separated	N	Y
Judson	Frida Kahlo	Foerster	Separated	Separated	N	Y
Junipero Serra	Portola	Holloway	None / Class III	Shared	N	Y
Justin	Agnon	Benton	None	Shared	Y	N
Kansas	23rd St	26th St	Lanes	Shared	N	N
Kansas	17th St	Mariposa	None	Shared	Y	N
Kansas	16th St	17th St	Lanes	Shared	N	Y
Kansas / Henry Adams	Division	16th St	Class III	Shared	N	Y
Kezar	Lincoln	Stanyan	Path	Path	N	N
Kirkham	Great Highway	6th Ave	Lanes	Shared	N	Y
La Playa	Balboa	Fulton	Class III	Shared	N	N
Laguna	Bay	Fancisco	Class III	Shared	N	Y
Laguna Honda	Kirkham	Dewey	Separated	Separated	N	Y
Laguna Honda	Dewey	Portola	Lanes	Shared	N	Y
Lake	28th Ave	Arguello	Slow Street	Slow Street	N	N
Lake	30th Ave	28th Ave	Class III	Shared	N	N
Lake Merced			Path	Path	N	Y
Lake Merced	Skyline	Vidal	None	Separated	Y	N
Lake Merced	Brotherhood	John Muir	None	Separated	Y	N
Lakeshore	Sloat	Sunset	Class III	Shared	N	N
Lee	Ocean	Holloway	Class II / Class III	Shared	N	Y
Leese	Richland	Crescent	None	Shared	Y	N
Lyell	Arlington	Aleman	Lanes	Shared	N	N
Lyon	Turk	Haight	Slow Street	Slow Street	N	N
Lyon	Francisco	Greenwich	Class II / Class III	Shared	N	Y
Mansell	Brazil	Visitacion	Path	Path	N	Y
Mansell	Visitacion	San Bruno	Lanes	Separated	N	Y
Marina Blvd Path	Mason	Laguna	Path	Path	N	N
Mariposa	Kansas	Pennsylvania	Class III	Shared	N	Y
Mariposa	Pennsylvania	Illinois	Class III	Separated	N	Y
Market	17th St	Duboce	Lanes	Separated	N	Y
Market	Duboce	8th St	Separated	Separated	N	Y
Market	8th St	Steuart	Class III	Shared	N	Y
Martin Luther King Jr	Lincoln	Chain of Lakes Dr E	Car-free	Car-free	N	Y
Martin Luther King Jr	Chain of Lakes Dr E	Middle	Separated	Separated	N	Y
Masonic	Geary	Page	Separated	Separated	N	N
McClaren Park			Paths	Paths	N	Y
McKinnon	Phelps	Newhall	None	Shared	Y	N
Merrill	Gaven	Silver	None	Shared	Y	N
Middle	Martin Luther King Jr	Metson	Separated	Separated	N	N
Middle	Metson	Overlock	Car-free	Car-free	N	N
Minnesota	Mariposa	22nd St	Slow Street	Slow Street	N	N
Mission Bay Blvd N	Mission Bay Dr	Terry A Francois	Class III	Undecided	N	Y
Mission Bay Blvd S	Mission Bay Dr	Terry A Francois	Class III	Undecided	N	Y

Appendix L • North Star Index

The following is an index of roadway segments that appear on the North Star map (pages 68–69). If discrepancies between this index and the map occur, defer to the map.

Street	From	To	Existing Facility	North Star Facility	New? (Y/N)	Upgrade? (Y/N)
Mission Bay Dr	7th St	Mission Bay Blvd	Class III	Separated	N	Y
Mississippi	16th St	Mariposa	Lanes	Separated	N	Y
Missouri	16th St	17th St	None	Shared	Y	N
Moncada	Junipero Serra	Urbano	None	Shared	Y	N
Monterey	Santa Clara	Ridgewood	Class III	Shared	N	Y
Monterey EB	Circular	San Jose	Separated	Separated	N	Y
Monterey WB	Circular	San Jose	Class III	Separated	N	Y
Montgomery	Pacific	Jackson	None	Shared	Y	N
Mt Vernon	Harold	San Jose	None	Shared	Y	N
Mullen	Brewster	Alabama	None	Shared	Y	N
Multimodal Corridor	Evans	Carroll	None / Class III	Shared	N	Y
Murray	Crescent	Holly Park	Class III	Shared	N	Y
Newhall	Hudson	Innes	None	Shared	Y	N
Newhall	McKinnon	Oakdale	None	Shared	Y	N
Niagara	San Jose	Mission	None	Shared	Y	N
Oak	Stanyan	Scott	None	Separated	Y	N
Oakdale	Bayshore	Loomis	Lanes	Separated	N	Y
Oakdale	Loomis	Phelps	Lanes	Separated	N	Y
Oakdale	Newhall	Lane	None / Class II	Shared	N	Y
Ocean	Sunset	19th Ave	Lanes	Shared	N	Y
Ocean	19th Ave	Junipero Serra	None	Shared	Y	N
Octavia Blvd	Francisco	Green	Class III	Shared	N	Y
Octavia St E	Market	Hayes	Class III	Shared	N	Y
Octavia St W	Market	Hayes	Class III	Shared	N	Y
Olmstead	Girard	San Bruno	None	Shared	Y	N
Ortega	Great Highway	17th Ave	Lanes	Shared	N	Y
O'Shaughnessy	Portola	Bosworth	Class III / Separated	Separated	N	Y
Other GGP connections				Undecided	N	N
Otis / McCoppin	Valencia	Van Ness	Lanes	Shared	N	Y
Ottawa	Huron	Cayuga	Class III	Shared	N	Y
Overlook	Middle	Transverse	Car-free	Car-free	N	N
Owens	Mission Bay	16th St	None	Separated	Y	N
Pacific	Front	Columbus	None	Shared	Y	N
Pacific	Webster	Powell	Class III	Shared	N	Y
Page	Stanyan	Market	Slow Street	Slow Street	N	N
Panhandle Path	Stanyan	Baker	Path	Path	N	N
Park Merced Development			None	Undecided	Y	N
Parnassus	7th Ave	Clayton	Class III	None	N	N
Path around Hunters Point	Innes	Harney	None	Path	Y	N
Path through Stern Grove	Wawona	Sloat	Path	Path	N	Y
Paul	San Bruno	Bayshore	Lanes	Separated	N	Y
Pedestrian Bridge over 280	Circular	San Jose	Path	Undecided	N	Y
Phelps	Bayshore	Williams	None	Shared	Y	N
Phelps	Innes	McKinnon	Class III	Shared	N	Y
Plymouth	Monterey	Sagamore	None	Shared	Y	N
Point Lobos	46th Ave	42nd Ave	Class III	Shared	N	N
Point Lobos	48th Ave	46th Ave	Lanes	Shared	N	N
Point Lobos	48th Ave	Balboa	Lanes	Separated	N	Y
Polk	Market	Pine	Separated	Separated	N	N
Polk	Green	Beach	Lanes	Undecided	N	N
Portola	Junipero Serra	Sydney	Class II / Class III	Shared	N	Y
Portola	Ulloa	Market	Lanes / Separated	Separated	N	Y
Post	Van Ness	Market	Class III	Undecided	N	N
Potrero	Division	Cesar Chavez	Lanes	Separated	N	Y
Potrero Power Station Development			None	Undecided	Y	N
Presidio	Pacific	Geary	Class III	Undecided	N	Y
Quesada	3rd St	Hawes	None	Shared	Y	N
Randall	Arlington	Church	None	Shared	Y	N
Randolph	19th Ave	Orizaba	None	Shared	Y	N
Richland	Arlington	Murray	Class III	Shared	N	Y

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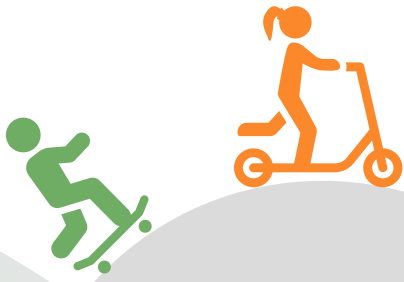
Street	From	To	Existing Facility	North Star Facility	New? (Y/N)	Upgrade? (Y/N)
Ridgewood	Monterey	Hearst	None	Shared	Y	N
Rivera	Great Highway	24th Ave	None	Shared	Y	N
Rivera	22nd Ave	20th Ave	None	Shared	Y	N
Rolph	Mission	Prague	None	Shared	Y	N
Rutledge	Franconia	Brewster	None	Shared	Y	N
Sagamore	Brotherhood/Aleman	Sickles	Lanes	Shared	N	Y
San Bruno	Woolsey	Mansell	Class III	Shared	N	Y
San Bruno	Mansell	Somerset	Lanes	Shared	N	Y
San Bruno	Somerset	Bayshore	Class III	Shared	N	Y
San Jose	Mt Vernon	Niagara	None	Shared	Y	N
San Jose	Monterey	Guerrero	Separated / Protected	Separated	N	Y
San Juan	San Jose	Mission	None	Shared	Y	N
Sanchez	23rd St	30th St	Slow Street	Slow Street	N	N
Sanchez	Duboce	Market	Class III	Shared	N	Y
Sansome	Embarcadero	Broadway	Lanes	Separated	N	Y
Santa Clara	Portola	Monterey	Class III	Shared	N	N
Scott	Alhambra	Greenwich	None	Shared	Y	N
Scott	Grove	Haight	Class III	Shared	N	Y
SF State			Path / Class III	Undecided	N	N
Shotwell	14th St	Cesar Chavez	Slow Street	Slow Street	N	N
Sickles	San Jose	Huron	Class II / Class III	Shared	N	Y
Silliman	Cambridge	Girard	None	Shared	Y	N
Skyline	Sloat	Lake Merced	Class III	Separated	N	Y
Skyline	Lake Merced	John Muir	Path / Class III	Separated	N	Y
Skyline	John Muir	---	Class III	Separated	N	Y
Sloat	Great Highway	Skyline	Lanes	Separated	N	Y
Sloat	Skyline	21st Ave	Lanes	Protected	N	N
Sloat	21st Ave	19th Ave	Class III	Separated	N	Y
Sloat	19th Ave	Portola	Class III	Shared	N	Y
Somerset	Karen	Silver	Slow Street	Slow Street	N	N
St Charles	Randolph	Niantic	Class III	Shared	N	Y
St Mary's Park Path + Pedestrian Bridge over Alemany	Benton	Cambridge	Path	Path	N	N
Steiner	Greenwich	California	Class III	Undecided	N	Y
Stonestown Development			Class III	Separated	N	Y
Sunnydale Development			None	Undecided	Y	N
Sutter	Polk	Market	Class III	Undecided	N	Y
Taraval	Dewey	Forest Side	Lanes	Shared	N	N
Teresita	Evelyn	Foerster	None	Shared	Y	N
Terry A Francois	3rd St	Illinois	Protected	Separated	N	N
Theresa	San Jose	Cayuga	None	Shared	Y	N
Tiffany	Safeway Parking Lot	Duncan	Class III	Shared	N	Y
Townsend	8th St	4th St	Separated / Protected	Separated	N	Y
Townsend	4th St	2nd St	Lanes	Undecided	N	Y
Townsend	2nd St	Embarcadero	Class III	Shared	N	Y
Transverse	Martin Luther King Jr	Crossover	Class III	Separated	N	Y
Turk	Arguello	Masonic	Lanes	Separated	N	Y
Turk	Polk	Market	Separated	Separated	N	N
Twin Peaks	Portola	---	Class III	Shared	N	Y
Twin Peaks			Path	Path	N	N
Twin Peaks	Clarendon	---	Class III	Undecided	N	Y
Ulloa	Claremont	Sydney / Portola	Class III	Shared	N	Y
University	Silliman	Woolsey	None	Shared	Y	N
Urbano	Moncada	Ashton	None	Shared	Y	N
Valencia	Market	23rd St	Separated	Separated	N	Y
Valencia	23rd St	Duncan	Lanes	Separated	N	Y
Van Ness	Beach	Bay	None	Separated	Y	N
Vermont / 26th St	Kansas	Cesar Chavez	Class III	Shared	N	Y
Vicente	Great Highway	Portola	Lanes	Shared	N	Y
Vidal	Lake Merced Path	Lake Merced Path	None	Shared	Y	N
Virginia	Elsie	Safeway Parking Lot	None	Shared	Y	N
Visitacion	Mansell	Hahn	None	Separated	Y	N
Washington	Embarcadero	Drumm	Protected	Separated	N	N

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Street	From	To	Existing Facility	North Star Facility	New? (Y/N)	Upgrade? (Y/N)
Wawona	21st Ave	20th Ave	Class III	Shared	N	Y
Webster	Broadway	Pacific	Class III	None	N	Y
Webster	Pacific	Clay	Class III	Shared	N	Y
Webster	Clay	California	None	Undecided	Y	N
Webster	Grove	Hermann	Class III	Shared	N	Y
Westgate / Cerritos	Monterey	Junipero Serra	None / Class III	Shared	N	Y
Wiggle	Scott	Duboce	Class III	Shared	N	Y
Wilder	Diamond	Arlington	None	Shared	Y	N
Williams	Phelps	3rd St	None	Shared	Y	N
Winston	Lake Merced	Junipero Serra	Class II / Class III	Separated	N	Y
Woolsey	University	San Bruno	None	Shared	Y	N
Yerba Buena	Santa Clara	Monterey	None	Shared	Y	N

Appendix M





Biking and Rolling Plan

Summer 2024 Neighborhood Outreach Report





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Introduction

The San Francisco Biking and Rolling Plan has a goal to deliver a safe, connected biking and rolling network within a quarter mile of everyone, involving a two-year process to help the SFMTA meet the needs of those who roll and bike over the next 10-15 years.

For Phase 3 of the Biking and Rolling Plan, the SFMTA hosted 10 open houses over the summer of 2024, meeting with hundreds of stakeholders throughout the city to share draft materials based on the year-long community outreach efforts in Phase 1 and Phase 2. Participants were asked to provide comments on a policy framework, suggested programs, and three bikeway scenario maps, weighing in on the tradeoffs of different policy choices and how they could result in different locations and types of bikeways.



Equity is at the center of the Biking and Rolling Plan.

SFMTA is working with community groups (Bayview Hunters Point Community Advocates, New Community Leadership Foundation, PODER, SOMA Pilipinas, and Tenderloin Community Benefit District) in six Equity Priority Neighborhoods, which have historically experienced displacement and disproportionate negative impact from past transportation initiatives, to develop “community action plans”. These plans will include community developed guidance related to engagement, infrastructure, policies, and programs, as well as identifying what systemic harm looks like in each neighborhood.

As part of these equity initiatives, participants at the open houses were asked to provide feedback on the latest iterations of:

- **Goals and policy developed through the Policy Working Group and the Equity Priority Community groups**
- **Programs developed through community outreach and input from the Equity Priority Community Group related to:**
 - Affordability and access
 - Education and encouragement
 - Economic and workforce development

In achieving the broader safety and connectivity goals of the Biking and Rolling Plan, SFMTA staff presented key aspects of an improved biking and rolling network, including:

- **Facility Toolkit, made up of types of infrastructure that people feel the safest on:**
 - Car-free spaces like streets and paths
 - Protected with hardened separation
 - Separated with quick-build materials
 - Shared roadways with heavy traffic calming and painted treatments
- **Policies that influence possible bikeways in the network:**
 - Community-led choices in Equity Priority Communities
 - All ages and abilities in facility types
 - Prioritizing school access
 - α. How we work in constrained spaces and merchant corridors with other elements that utilize space on the street, including transit routes, fire department response routes, street parking, parklets, and other streetscape elements





- **Network certainty map showing what bikeways are approved, newly proposed or suggested, categorizing them as either:**
 - High certainty / Approved already
 - Medium certainty / Newly proposed by SFMTA staff
 - Low certainty / Newly suggested bikeways by community

In turn, three network scenarios were presented for open house participants to comment and weigh in on, each applying different sets of these policies and facility toolkits, along with the associated tradeoffs:

- **Scenario A: Heavily protected and separated**
 - People feel the safest, significant parking removal, a lot of work needed to design for accessibility needs, high cost and staffing capacity, and four merchant corridors that will require outreach work beyond this plan
- **Scenario B: Painted lanes with heavy traffic calming**
 - People feel less safe, minimal parking removal, a lot of work needed to design for accessibility needs, more historically traditional cost and staffing capacity needed
- **Scenario C: Significantly traffic-calmed zones centered around schools**
 - Centered on shorter trips, people feel less safe, minimal parking removal, a lot of work needed to design for accessibility needs, high cost and high staffing capacity needed



In the following report, we outline an illustrative summary of what we heard overall across the summer open houses and outreach meetings and what we heard about some specific locations at each open house and outreach meetings. SFMTA staff will use the comments to help weigh the trade-offs and refine the draft materials.

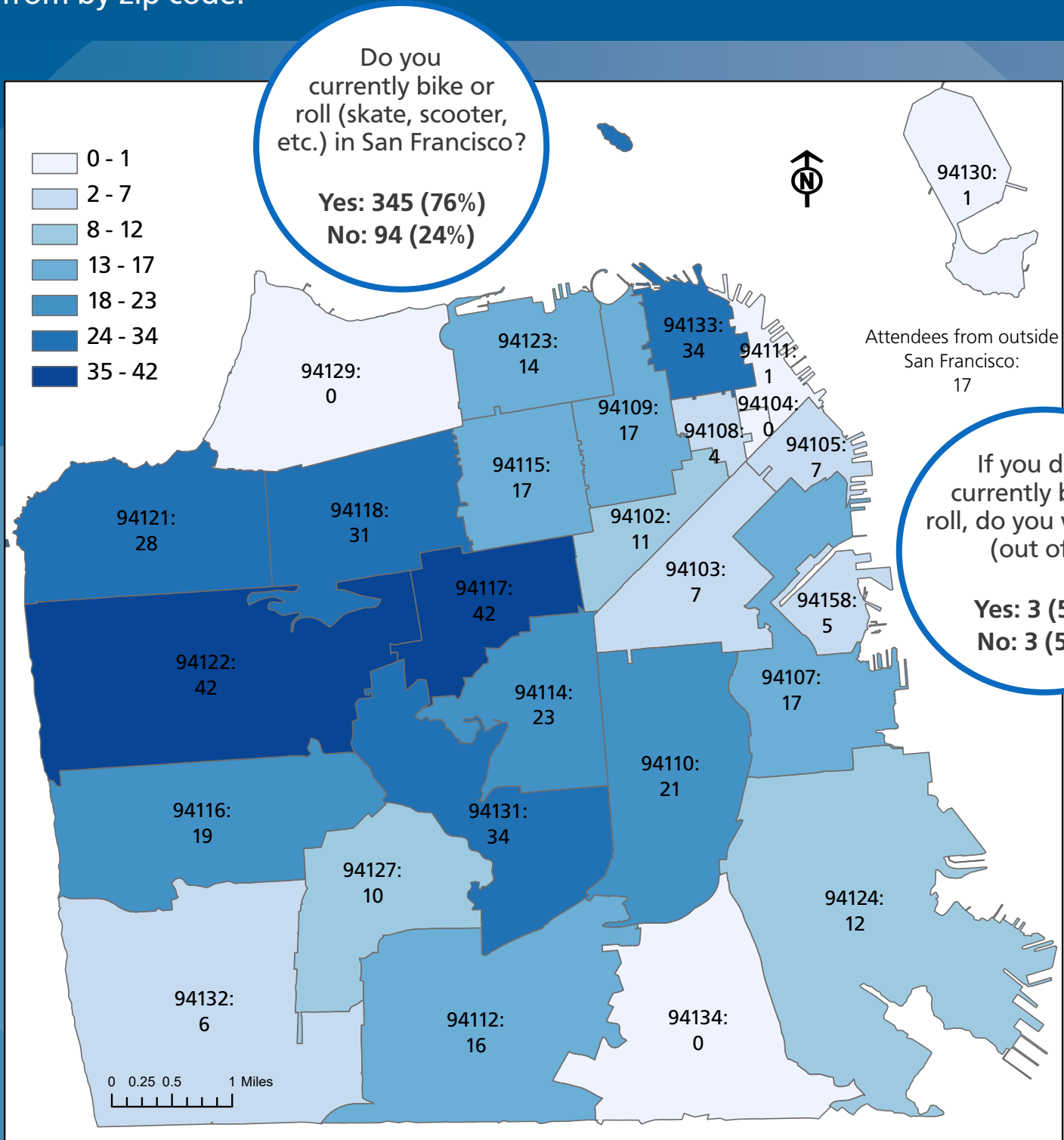
Note: SFMTA staff carefully read each comment, used AI via Microsoft Copilot to help organize and summarize comments, and then verified accuracy of the outputs.

Any suggested bikeways and/or improvements in the Plan will still go through project-specific outreach to refine the plans and designs of proposed bikeways.

Neighborhood Open House Attendance - Summer 2024



Approximately **486** people attended the 10 neighborhood open houses held across San Francisco this summer. Here is a breakdown of where attendees came from by zip code:



*Numbers based on information provided by attendees upon sign in at each open house event

What We Heard - Overall Comments



Below, we outline an illustrative summary of what we heard generally about the Biking and Rolling Plan. SFMTA staff will use the comments to help weigh the trade-offs and refine the draft materials.



“Slow streets are lovely. They help bikers & pedestrians. They help create a sense of community & make urban neighborhoods more neighborhoody, connected, & kind”

“Please keep in mind the needs of seniors and people with disabilities, their accessibility needs are unique.”



“Consider cyclist who are uncomfortable now/ not biking - what would it take to get them on the road?”



Comments about Engagement for the Plan

1. Acknowledge Past Harms First:

- o Many participants were generally wary of the SFMTA engagement and plan development process, which made them understandably wary of this project.
- o Participants brought up old bus lines and issues with current service and quick-build projects that caused them harm in the past.

2. Conduct Effective Community Engagement and Outreach:

- o Develop creative, clear, and inclusive engagement processes to build stronger relationships with communities.
- o Improve communication channels to notify of project updates and timelines.
- o Conduct additional rounds of public input with more time to review proposals prior to events.



3. Involve Merchants Along with Other Stakeholders:

- o Merchant input is valuable to help with planning but should be carefully weighed along with other viewpoints to decide on street design.
- o Ensure business/merchant representation in Technical Advisory Committee.



“Need to come back to communities after we have a clearer plan to run it by residents, come back to us, build relationship.”



4. Increase Accountability in Agency Leadership and Decision-Making:

- o Emphasize strong leadership to communicate safety as a priority.
- o Build trust by increasing transparency in SFMTA process.

5. Improve Access to Materials:

- o Design a more user-friendly website with easier navigation.
- o Improve legibility and readability of online maps.
- o Makes physical maps and information more readily available.
- o Update definitions to avoid jargon and confusion.
- o Offer resources in Spanish and other languages.
- o Present design alternatives side by side to compare proposal scenarios.
- o Present examples of great streets in other cities.
- o Include additional data and design standards to support the benefits of bike lanes.

6. General Appreciation and Support:

- o Many comments expressed gratitude for the outreach work being done.
- o Positive feedback was given on the presentation of proposed improvements.

“Community engagement that allows local business owners to talk to cyclists + understand how many cyclists visit their shops or would visit if cycling were safer.”



“This looks like an amazing improvement over what we have today!”



Comments about Facilities, Policies, and Programs

Bike Facilities

1. Safe and Protected Bikeways that Encourage People to Bike and Roll:

- o Increase protected, separated, or car-free bikeways over non-protected, non-separated, and non-car-free bikeways.
- o Increase physical barriers (e.g., concrete, plastic poles) to prevent cars from going into bike lanes.
- o Add protected intersections and continuous protected paths.
- o Support car-free promenades and routes.
- o Create bikeways that enforce the rules of the road including stop signs painted on bike lanes.

2. Traffic Calming and Diversion to Increase Safety and Comfort:

- o Increase traffic calming measures in residential and high-traffic areas.
- o Add diverters, planters, and roundabouts to slow down traffic.
- o Implement bulb-outs and raised crosswalks for pedestrian safety.

3. Ample Bike Parking and Storage:

- o Increase secure, safe, and convenient bike parking near businesses, schools, and residential areas.
- o Increase for bike lockers, indoor cages, and large-scale bike parking facilities.
- o Incentivize businesses to install bike parking.

4. Connected Biking and Rolling Network:

- o Ensure facilities reach all parts of the city for safe cross-town travel.
- o Ensure connected network of bike lanes, especially to key destinations like BART stations and business corridors.
- o Increase uninterrupted car-free paths across the city.
- o Connect bikeways to schools and open spaces.

“Protected bike lanes help keep communities healthy, happy, connected, and safe! Protect SF bike lanes :)”

“More bike storage is super necessary!”



5. Quality Materials for All Types of Bikeways:

- o Use durable materials for quick-build projects.
- o Paint or add delineators to concrete barriers for visibility.

6. Biking and Rolling Amenities and Services:

- o Install bike maintenance stations along major bike corridors, like tire refill stations.
- o Create of safe charging stations for e-bikes.
- o Expand bikeshare stations in underserved areas.

Policies

1. Bike Facilities to Enhance Connectivity and Encourage New Riders:

- o Ensure bike lanes are continuous, prioritizing connecting gaps in the network.
- o Establish policy to ensure all future bike lanes are protected.
- o Increase number of uninterrupted car-free paths across the city to encourage new cyclists.
- o Maintain clean bike lanes and make them wide enough to accommodate cargo bikes.



“Consider cyclist who are uncomfortable now/ not biking - what would it take to get them on the road?”

2. Safety in Design and Implementation of Bike Facilities:

- o Preference for Class I and IV bike lanes over Class II and III.
- o Standardize concrete barriers for protected bike lanes to separate cyclists from car traffic.
- o Design streets to prioritize bike safety over car movement.
- o The slow streets program is wrongly prioritized and should focus on fast streets instead.
- o Create speed restrictions for e-bikes that are larger, heavier, and faster than normal bikes.
- o Separate bikeways and transit infrastructure where possible to reduce conflicts and enhance safety.
- o Assess safety commercial corridors or streets in high-injury network when placing and designing bike facilities.

3. Traffic Calming to Enhance Effectiveness of Bike Network:

- o Add traffic calming measures to complement bike facilities, such as four way stops, speed humps, raised crosswalks, and traffic circles.
- o Prioritize additional traffic calming in areas around schools and recreational areas.
- o Address vehicles that frequently double park and block bike facilities, such as app-based rides and deliveries.
- o Update traffic signals to add leading bicycle/pedestrian intervals.
- o Replace blinking yellow right turn lights with clearer red/green signals.

4. Enhance Connectivity of Biking with Transit:

- o Improve connectivity of bike facilities to major transit hubs and provide additional bike parking.
- o Use smooth pavement on all streets and improve bike access around and over Muni tracks.
- o Expand bike capacity on Muni vehicles, including more bike racks on buses and permitting bikes on light rail vehicles. It's often the easiest way to get around.

5. Equitable Access and Future Expansion

- o Increase investment in bike network for the future, reducing reliance on cars to meet climate and density goals.
- o Implement bike facilities that empower children and vulnerable people to utilize them.
- o Improve experience of slower ADA wheeled devices, such as mobility scooters, in navigating existing infrastructure.
- o Assess opportunity to add safety improvements on streets prior to scheduled street repairs.



“SFMTA should prioritize designs that forefront safety of the user, the potential for iteration and change, and the maximization of co-benefits such as green infrastructure and pedestrian access.”

“Yes to heavy traffic calming around schools. Have you seen what Paris did? Car free right in front of school, calm on surrounding streets”

Programs

1. Provide Incentives and Discounts

- o Provide discounts for students, high schoolers, and implement universal discount programs.
- o Expand rebates for e-bikes, especially targeting commuters, delivery workers, and seniors.
- o Offer financial support for fixed-income individuals to purchase cargo bikes.
- o Subsidize or provide free helmets, particularly for children, and bike locks.
- o Provide rent subsidies for bike shops along busy routes.
- o Develop programs to get unused bikes in garages tuned up and back on the road.

2. Increase Access to Bikes

- o Implement program to provide every kid and teenager access to a bike.
- o Make safety gear more accessible.
- o Simplify the process for businesses to install bike racks.

3. Improve Outreach and Education

- o Create a platform for public feedback on bike infrastructure.
- o Conduct outreach on new infrastructure treatments and slow street regulations.
- o Increase emphasis on safety measures in school zones.
- o Increase bike education in schools.
- o Provide information on bike lanes, bike safety, and how to use bike infrastructure.
- o Promote sharing of multi-passenger bikes and cargo bikes.



“Important to have bike facilities connecting to all transit (especially BART).”

“Free or reduced helmets for children (from a doctor)”

“How will mobility scooters be managed? ADA issue. Speed differentials? Bike, e-scooter (travel) 20 mph. Mobility scooter (travel) 5 mph. Sidewalks NOT viable! Sidewalk quality & barrier; parking/ construction obstacles”



4. Support Community

- o Continue bike valet services at events and farmers markets.
- o Organize large citywide group rides like bike buses and open streets events to demonstrate demand.
- o Regularly close streets for biking events.
- o Turn commercial corridors into transit plazas with supportive merchants.
- o Implement programs similar to the UK’s Bike to Work scheme.

5. Increase Use of Emerging Mobility

- o Integrate new bike infrastructure with Bay Wheels stations.
- o Ensure public data and maintenance standards for bikeshare programs like Lyft.
- o Encourage UPS, FedEx, and the Postal Service to use e-cargo bikes.
- o Explore the use of golf carts for short-distance travel.



“Love Sunday Streets!”



“Consider cyclist who are uncomfortable now/not biking - what would it take to get them on the road?”

Comments about Common Recurring Topics

In addition to comments related to biking and rolling infrastructure, programs, and policy, these three topics commonly recurred during summer outreach: Enforcement of traffic rules, vehicle parking, and user experience of biking and rolling, all three of which overlap with infrastructure, programs, and policy.

Enforcement of Traffic Rules:

1. Need for Traffic Enforcement for Driving and Bicycling Rules:

- o Infrastructure alone is not enough without enforcement.
- o Enforce traffic laws, especially speeding.
- o Enforce bike rules.

2. Examples of Traffic Violations Mentioned:

- o Parking in bike lanes, especially vehicles for delivery and ride-hailing services
- o Scooters on sidewalks
- o Double-parking
- o High-speed motorbikes in bike lanes
- o Speed limits around schools



“Enforce existing laws for bicycle and scooters regardless if there are special lanes. I can’t safely cross [the street] without mostly young, mostly male electric bike and scooter riders not slowing down, going right through stop signs and not even looking to see if anyone is crossing the street.”

3. Examples of Traffic Enforcement Solutions Mentioned:

- o Write tickets and towing cars
- o Fine delivery trucks/cars blocking bike lanes
- o More law enforcement on bikes
- o Confiscate of bikes for sidewalk riding
- o Hold Transportation Network Companies (TNCs) accountable

4. Equitable Enforcement:

- o Enforcement should be unbiased and consistent. For example, use of speed cameras.
- o Automated traffic enforcement is needed for equitable coverage.

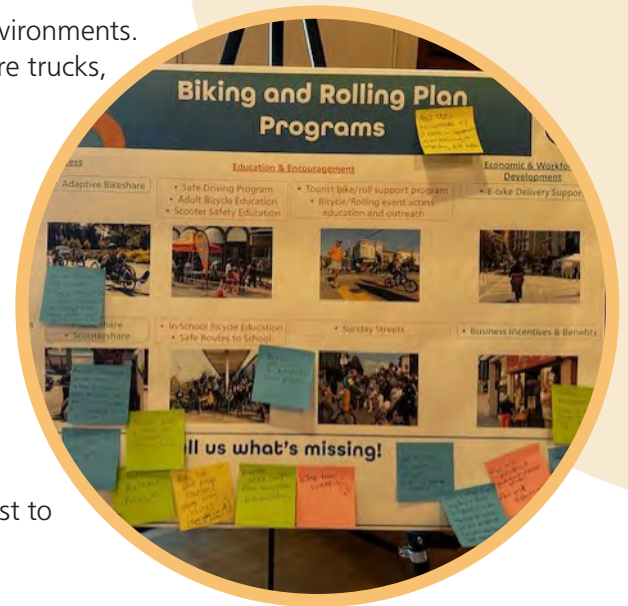
“Have SFPD enforce dangerous moving violations in an un-biased manner +1”



“More advertising and education on where bike lanes are, how to put bike on Muni, where bike rentals are, how to ride safely, etc would go a long way for new/learning city bikers”

5. Prioritize Resources for Enforcement:

- o Engage with local businesses to create bike-friendly environments.
- o Prioritize enforcement in busy merchant corridors where trucks, ride-hailing, and delivery drivers block bikeways
- o Study enforcement rules for bikes
- o Enforce of speed limits and volume limits on calmed streets.



Vehicle Parking

1. Desire to Reallocate Parking to Other Uses:

- o Remove parking to encourage alternative transportation.
- o Suggestions to reframe parking removal as “curb reprioritization.”
- o Parking takes up lots of space and comes at a huge cost to other city goals.

2. Desire to Preserve Parking Spaces:

- o Keep existing parking spaces.
- o Avoid removing parking.
- o Parking is essential for residents and businesses.

3. Impact on Specific Groups:

- o Consideration for houses without garages.
- o Need for accessible parking for handicapped individuals.
- o Concerns about the impact on merchants and businesses.

4. Alternative Solutions:

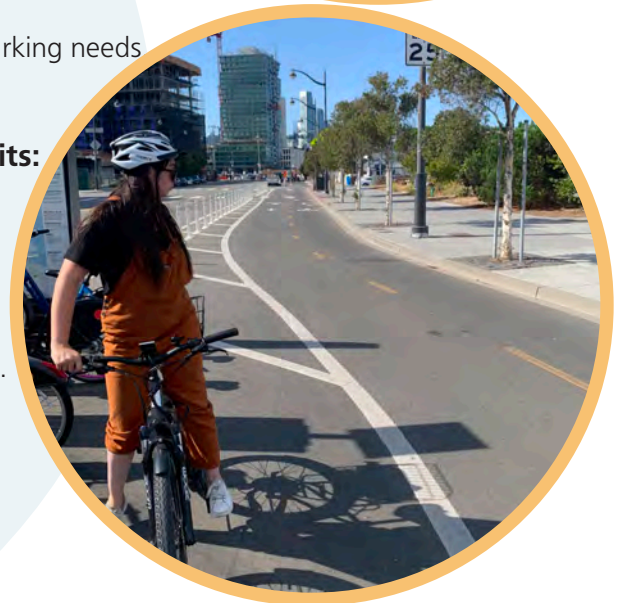
- o Expand residential parking permits (RPP) and appropriate pricing.
- o Enforce and better manage parking and curbs.
- o Replace lost parking or create one-way streets to minimize parking removal.
- o Consider role of technology (like Waymo) in reducing parking needs

5. Safety, Accessibility, Environmental, and Social Benefits:

- o Emphasize safety over parking.
- o Provide better options for people who need to park or load vehicles to prevent parking in bikeways
- o Provide fully accessible parking spots when adding bikeways to prevent accessibility issues.
- o Less parking incentivizes walking, biking, and transit use.
- o Parking removal reduces car dependency and promote mode sharing.



“The neighborhood is residential with little on-site parking. Bike lanes should not take away street parking.”



User Experience

1. Safety and Comfort of Infrastructure:

- o Mixing zones aren't safe or comfortable.
- o Plastic bollards aren't effective.
- o Upgrade bikeways from sharrows/Class III.
- o Raise bike lane to curb level like in Vancouver or Amsterdam.
- o Improve intersection comfort and safety.
- o Slow traffic down.
- o Make Slow Streets safer.

1. Efficiency of Infrastructure:

- o Facilitate safe biking through and to commercial corridors.
- o Add bicycle signals to give bicyclists a head start.
- o Improve and add bike sensors at signaled intersections.
- o Designate fast vs. slow bike routes, for example, fast lanes for e-bikes.



“More advertising and education on where bike lanes are, how to put bike on Muni, where bike rentals are, how to ride safely, etc would go a long way for new/learning city bikers”



“Think about designation of fast, efficient bike commute routes in parallel with slower, pleasant joy rides (parks, merchant, schools).”

2. Ease of Use:

- o Improve legibility of bike route signage.
- o Add more signage and maps to direct people on bicycles.
- o Coordinate with Google and Apple for better bike navigation, bike directions are not always the best.
- o Advertise maps of bike lanes.

3. Placemaking, Community, and Fun:

- o Add more planters for quick builds to make streets greener.
- o Create a sense of community, especially in Slow Streets.
- o Bicycling is fun and liberating.
- o There should be a focus on sidewalks and pedestrian safety, experience, and accessibility, including more benches and buses.
- o There is an opportunity for people to exercise and improve their health. Addressing the common excuse of not having time for exercise is important.
- o Support Bike Coalition and WalkSF.



“From a SF born and raised young adult woman of color, I started biking a years ago. It has been one of the most liberating of accessible things I have ever done. I am able to get to all parts of the city in bike, I want this for all SF’s residence. We can’t have this without biking and pedestrian safety centered infrastructure!”



Comments about General Goals of the Plan

General Equity, Accessibility, and Environment

1. Equity:

- o There should be an emphasis on equitable access to biking infrastructure.
- o There are concerns about marginalized communities not benefiting from current initiatives.
- o It is important to highlight the cost-effectiveness of bikes compared to cars.
- o There is opposition to subsidies that benefit the wealthy.
- o There are issues with slow streets creating elitist areas.
- o There should be a proof of concept for safe commuter routes based on community needs.

“Please keep in mind the needs of seniors and people with disabilities, their accessibility needs are unique.”

2. Disabled Access:

- o There are needs for seniors and people with disabilities, such as wider sidewalks, easier curbs, low height, and smooth sidewalks.
- o Scenario A is too expensive and doesn't consider the needs of the elderly.
- o There is a need for better engagement with physically challenged individuals.
 - o It is important to have safe, car-free paths for all, including those using recumbent bikes.

3. Environment:

- o There are concerns about plastic bollards contributing to microplastics.
- o Protected facilities encourage more cycling and help shift the mobility culture away from cars.



“Slow streets are lovely. They help bikers & pedestrians. They help create a sense of community & make urban neighborhoods more neighborhoody, connected, & kind”

General Economic Impact

1. Impact to Merchants and Local Businesses:

- Promote foot traffic and business, connect communities, and foster prosperity.
- Encourage visits to businesses in slow street areas, creating a welcoming environment.
- Merchants' influence may compromise residents' safety.
- Increased visits to waterfront businesses due to better accessibility.
- Support for local bike shops, which are crucial despite e-commerce challenges.
- Consider loading needs in industrial areas.



“I visit businesses along the waterfront more because I can just roll up and check them out. Even if the merchant corridor is just a street away. I’m less likely to visit because I can’t see them.”



2. Budget and Financial Cost of Plan:

- Do not frame Scenario A as expensive, it is cheap cheaper than the cost of car-centricness. It costs thousands a year to own a car, families will have more money to spend on other things.
- Measure the cost of not doing anything, in addition to the cost of implementing.
- SFMTA is in a budget crisis. Focus on public transportation instead until we know the impact of commutes, businesses, and driverless vehicles.

General Safety

1. Safety Concerns:

- Traffic circles are not safer than typical intersections.
- Buffered or separated bike lanes lack sufficient physical protection and are within door radius.
- Speed bumps with gaps do not effectively reduce driver speed.
- Narrow bike lanes are unsafe due to limited space for avoiding obstacles.
- Low barriers offer minimal protection as inattentive drivers often encroach into bike lanes.
- Right-side bike lanes are perceived as more dangerous than no bike lanes.
- Roads designed for car safety are not necessarily safe for bicycles.



- o Potholes pose significant hazards, especially in areas like Golden Gate Park and the tunnel from Koret Playground to Haight Street.
- o The current rate of frequent cycling is considered dangerous.
- o Some believe that slow streets may compromise safety for residents.
- o Concerns exist about the influence of merchants on residents' safety.



“I’m afraid to leave my house because the roads around me are so crazy with cars. I only do it because I have no other choice. Maximize safety & connection, please!”

2. Driver Behavior:

- o Motorists frequently drive towards cyclists to align their wheels with gaps.
- o SFMTA’s speed bumps are ineffective, and more drivers are ignoring stop signs, especially for pedestrians.
- o Traffic calming measures must address both driver attitudes and engineering solutions.
- o Use Infrastructure to slow cars and enforce stop signs to prevent dangerous intersections.
- o Implement measures to encourage drivers to slow down around cyclists and pedestrians.

“Traffic calming requires changing driver attitudes as well as engineering changes.”



3. Infrastructure and Design:

- o Scenario C is the least safe option.
- o Scenario C should have separated lanes and funding for safer school zones.
- o MTA staff should try bike facilities to understand safety issues.
- o MTA should have a team to check hazards during peak times.
- o Better management of bikes and scooters on sidewalks is needed.
- o Increase the number of bulb-outs as they are effective.

- o Address visibility and cost issues of islands at night.
- o The “laned, calmed” option might seem safe but needs careful consideration.

4. Vision Zero and Traffic Calming:

- o Scenario A supports Vision Zero goals.
- o Prioritize maximum safety and convenience.
- o Traffic calming around schools needs a safe, connected network for city-wide impact.
- o Vision Zero is achievable with proper implementation.
- o Consider a self-reported “near miss” system to enhance current reporting.



“I’d like to see a greater focus at intersections to improve bike and pedestrian safety. I want solutions to keep cars, trucks and dumpsters from blocking bike facilities.”

5. Personal Impact and Preferences:

- o Make bike commuting safe to influence job choices.
- o Safer biking will boost business for merchants.
- o Address fears of chaotic road conditions.
- o Make bike commuting safe for children.
- o Prioritize young cyclists’ safety over parking spaces.
- o Improving safety will increase the number of cyclists.

6. General Observations and Suggestions:

- o Make biking around the city safe.
- o Address safety issues with front-mounted bike carriers.
- o Protect children from car-related dangers.
- o Deal with frequent assaults on cyclists in certain areas.
- o Revise the current unsafe map.



What We Heard at Each Open House



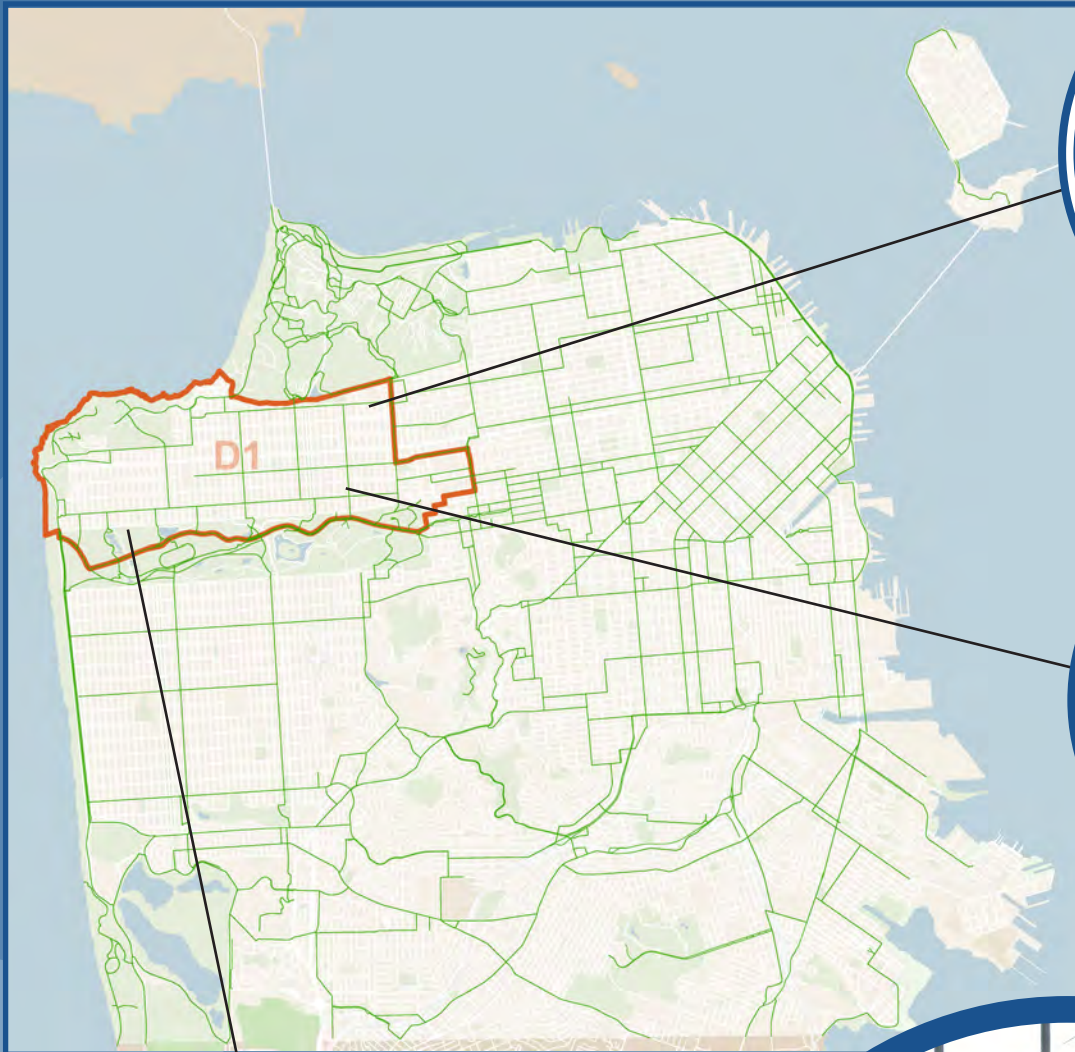
Below, we outline an illustrative summary of what we heard about some specific locations at the open house in District 1. SFMTA staff will use the comments to help weigh the trade-offs and refine the draft materials.

Note: SFMTA staff carefully read each comment, used AI via Microsoft Copilot to help organize and summarize comments, and then verified accuracy and edited the outputs. No decisions have been made, and any proposals in the Plan will still go through project-specific outreach to refine the plans and designs of proposed bikeways.



District 1 Open House

July 24, 2024 - Richmond Rec Center



Do you currently bike or roll (skate, scooter, etc.) in San Francisco?

Yes: 30 (81%)
No: 7 (19%)

If you don't currently bike or roll, do you want to?

Yes: 5 (71%)
No: 2 (29%)

Total attendees: approx. 58



Sample of What We Heard - District 1 Open House

Below, we outline an illustrative summary of what we heard about some specific locations at the open house in District 1. SFMTA staff will use the comments to help weigh the trade-offs and refine the draft materials. Note: SFMTA staff carefully read each comment, used AI via Microsoft Copilot to help organize and summarize comments, and then verified accuracy and edited the outputs. No decisions have been made, and any proposals in the Plan will still go through project-specific outreach to refine the plans and designs of proposed bikeways.

Richmond

- **Fulton St:**
 - Add bus red carpet and more stop lights to improve accessibility and safety for the Richmond district.
 - Need protected bike paths; crossing Fulton N-S is unsafe due to speeding cars.
 - Extend Cabrillo slow street past Argonne Elementary.
 - Improve safety at intersections like 8th Avenue and Park Presidio.
 - Need a protected option to cross Fulton into GGP.
- **Geary Blvd:** Needs bike lanes to improve safety and encourage shopping.
- **Arguello Blvd:**
 - Needs protection for bikers due to fast traffic and risks of derailment and bucking.
 - Essential for connecting slow streets like Clay Street and Pacific Heights bike infrastructure to Richmond.
 - Recognition of Arguello as a key bike corridor needing protection.
- **Anza St:**
 - Needs protection, especially after Arguello, due to fast traffic and unsafe driving behaviors.
 - More important for safer connections compared to Cabrillo.
 - Calls for protected bike lanes due to issues with parked cars and stop sign violations.
- **Cabrillo St:**
 - Needs protected bike lanes; viewed as a connector to major locations like Presidio, Golden Gate Bridge, and Golden Gate Park.



- Extend slow street past Argonne Elementary.
 - Needs protected bike lanes to benefit many people.
- **Clement St:** Needs a bike lane or calming lane.
- **8th Ave:**
 - Needs repaving and robust traffic calming.
 - Should have 4-way stops at intersections like Irving and Judah.

Inner Sunset

- **11th Ave:**
 - Needs more 4-way stops or traffic calming measures.
 - Stop signs at intersections like Judah and Lawton are not visible.

Mission

- **17th St:** Needs a protected bike lane as it is a critical link to the bike network and provides access to estuaries on the east.
- **Caesar Chavez St:** Needs a fully separated route free of glass, gravel, and freeway over ramp crossing. More protection is needed due to plowed down posts.



Western Addition

- **Divisadero St:** Unsafe left turns into the gas station at Fell Street. Needs diversion when turning into the bike lane.
- **Wiggle/17th:** Support for uninterrupted car-free paths to encourage new cyclists. Concerns about right hooks and the need for more traffic calming. Suggestions for bike maintenance stations along key bike corridors.

Financial District

- **Clay St:** Slow street needs a connection to Downtown or Chinatown.

Parkside

- **Dewey Boulevard & Pacheco St:** Dangerous crossing for cars, bikes, and pedestrians. Consider adding a traffic circle.

Castro/Upper Market

- **14th St:** Needs a protected bike lane or green paint to make crossing Market Street safer. Love the 20-mph bike light timing.



District 2 Open House

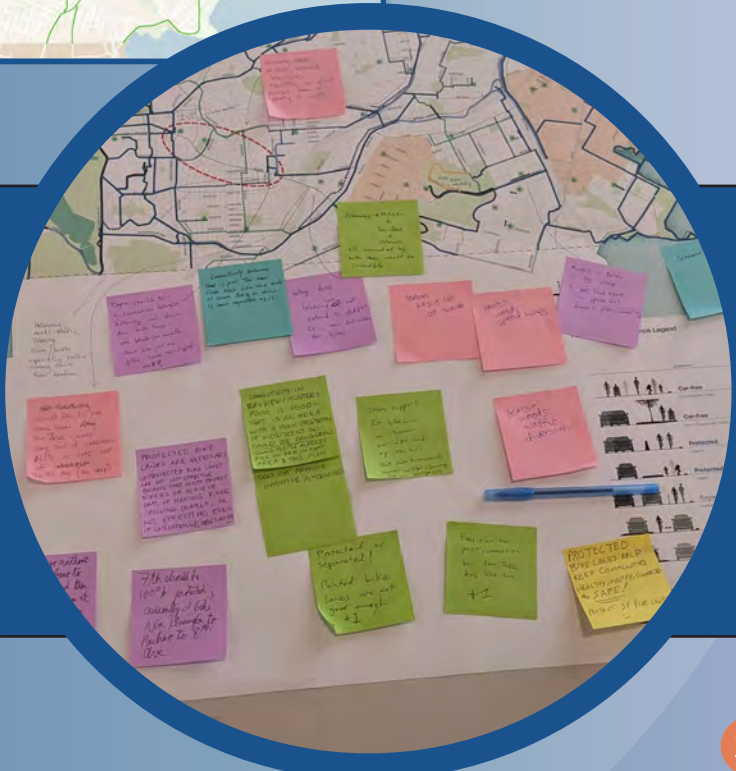
July 31, 2024 - NEON



Do you currently bike or roll (skate, scooter, etc.) in San Francisco?
Yes: 30 (81%)
No: 7 (19%)

If you don't currently bike or roll, do you want to?
Yes: 5 (71%)
No: 2 (29%)

Total attendees: approx. 37



Sample of What We Heard

Below, we outline an illustrative summary of what we heard about some specific locations at the open house in District 2. SFMTA staff will use the comments to help weigh the trade-offs and refine the draft materials. Note: SFMTA staff carefully read each comment, used AI via Microsoft Copilot to help organize and summarize comments, and then verified accuracy and edited the outputs. No decisions have been made, and any proposals in the Plan will still go through project-specific outreach to refine the plans and designs of proposed bikeways.

Presidio:

- **Arguello/Presidio Blvd:** Better protection plans needed.

Nob Hill/Russian Hill/North Beach:

- **Polk St:** Complete and make safe for biking. Need protected lanes on Polk & Columbus. Prevent cars from turning into nearest traffic lane.
- **Green St:** Shared, calmed/diverted street connecting Polk to Steiner. Consider separated bike lane on Greenwich.
- **Franklin:** Remove one car lane and add a bike lane as an alternative to Polk.
- **Galileo High School at Bay & Van Ness:** Traffic calming needed, especially with students crossing from bus stops.
- **Francisco St:** Painted bike lanes widen the street, causing faster traffic and less safety.
- **Columbus:** Address gaps in the network. Prevent cars from monopolizing the only flat route through North Beach.
- **North Point, Greenwich St, Francisco St:** No changes

Downtown/Civic Center/SoMa/Financial District

- **Car-free Market St:** Pedestrians running across/walking in the street is terrifying for bikers.
- **Embarcadero:** Extend cycle track along the full Embarcadero.

Hayes Valley:

- **Hayes Valley near Octavia:** No cars should be allowed.

Western Addition:

- **Greenwich/Steiner:** Add a bikeshare station at the northwest corner.
- **Steiner:** From Post to Chestnut, multiple upvotes for protected lanes.
- **Steiner:** Extend/connect Steiner. Protect from Fulton to Union St. Scary intersection at Steiner/Fulton.
- **East-West connections:** Suggest bike lane on Golden Gate or Post between Downtown and Steiner
- **North-South connections:** Need more connections between Polk and Sansome, Leavenworth/Hyde, Grant.

Golden Gate Park:

- **Car-free JFK:** Walkers use the entire street, making it unpredictable for bikers.
- **Golden Gate Park:** Appreciate more car-free roads in Golden Gate Park.

Outer Richmond:

- **15th Ave:** Redirect cars due to lack of left turns from Park Presidio.
- **Lake and Clay Slow Streets:** Clarify expectations for drivers sharing the road with cyclists and pedestrians.

Mission

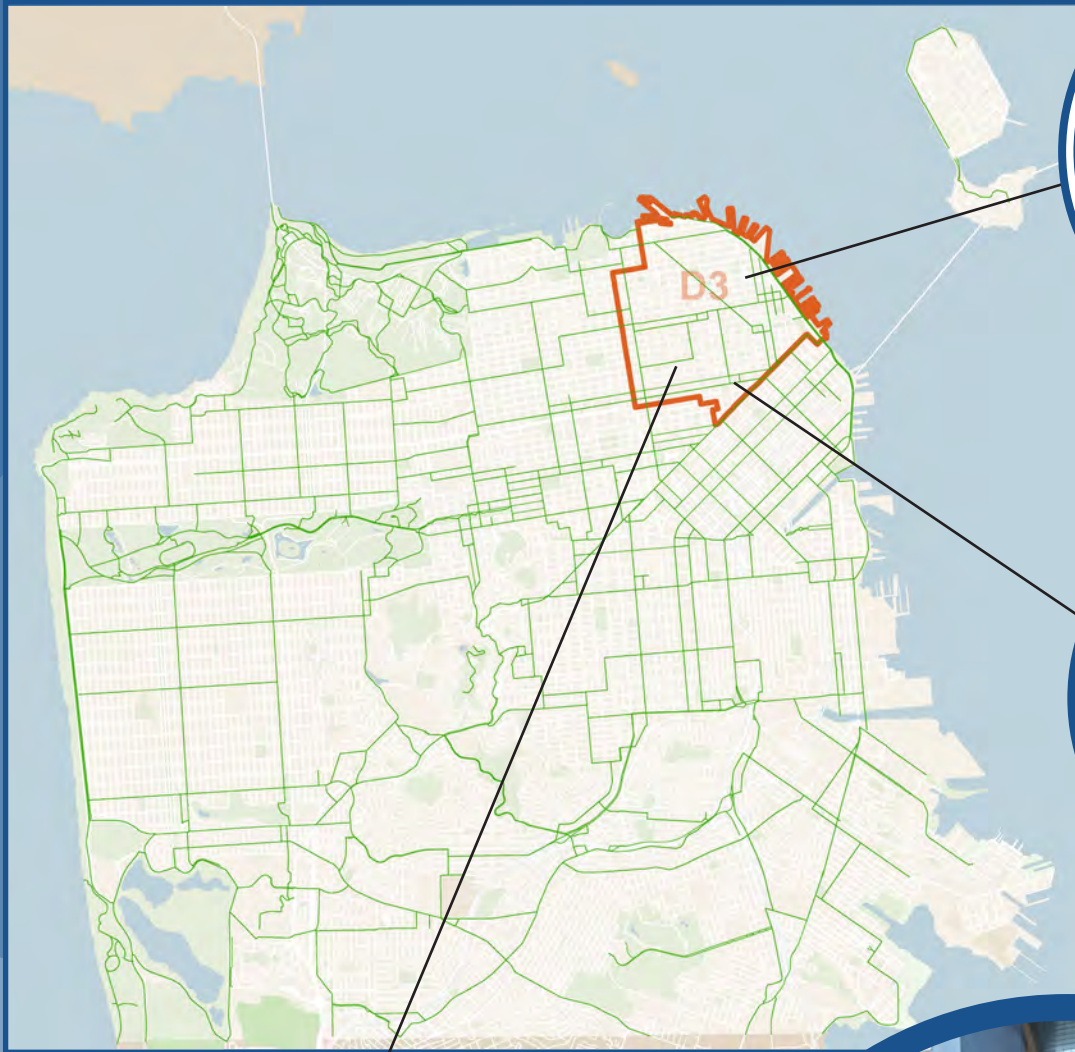
- **14th St:** From Market to Valencia, marrow lanes and heavy traffic make painted lanes scarier than sharrows.
- **Folsom St:** From Cesar Chavez to 13th St, should be protected.
- **Harrison:** From Cesar Chavez to 17th St, keep as a protected bike lane.





District 3 Open House

July 8, 2024 - Joe DiMaggio Playground



Do you currently bike or roll (skate, scooter, etc.) in San Francisco?

Yes: 29 (52%)
No: 26 (46%)

If you don't currently bike or roll, do you want to?

Yes: 4 (17%)
No: 19 (83%)

Total attendees: approx. 56



Sample of What We Heard

Below, we outline an illustrative summary of what we heard about some specific locations at the open house in District 3. SFMTA staff will use the comments to help weigh the trade-offs and refine the draft materials. Note: SFMTA staff carefully read each comment, used AI via Microsoft Copilot to help organize and summarize comments, and then verified accuracy and edited the outputs. No decisions have been made, and any proposals in the Plan will still go through project-specific outreach to refine the plans and designs of proposed bikeways.

Chinatown/North Beach:

- **Columbus Ave:**
 - Needs investment for bikes and pedestrians.
 - Wider sidewalks and protected bike lanes are necessary.
 - Consider replacing car lanes with bus and bike lanes.
 - Speed bumps to slow down traffic.
 - Families bike here; they need protection.
 - Traffic calming is essential.
 - Ignoring Columbus is not an option; everyone uses it.
- **North Beach:**
 - Many stop signs; consider roundabouts.
 - Drivers are insane on weekends; need intensive traffic calming.
- **Stockton St:**
 - The tunnel is dangerous, especially southbound.
 - Needs protected bike and bus lanes.
 - Close Stockton between Union and Columbus.
 - Fill in potholes in the tunnel.
 - Consider adding a protected lane.
- **Grant Ave:**
 - Make it car-free between Market and Filbert.
 - Make it bike and pedestrian-friendly all the way to Filbert by removing parking during daylight hours.
- **Kearny St:**
 - Needs protected bike and bus lanes.
 - Officially proposed for the Biking and Rolling Network.
- **Montgomery St:** Needs protected bike lanes for safe access to downtown.
- **Broadway:**
 - Needs a protected bike lane.
 - Can be reduced to one lane each way to add a bike lane.
 - More traffic calming needed.
 - The tunnel needs a protected bike lane; remove car lanes to slow down traffic.
 - Currently very dangerous; protection is essential.
 - Consider a quieter, less commercial route for bikes.
 - Protected bike lanes on Broadway are crucial.
- **Pacific Ave:**
 - Too steep for safe biking. Going west on Pacific is harder than east.
 - Needs a protected lane on Broadway.



- o Should connect the Pacific slow street to Steiner St.
- o Make Pacific between Van Ness and Webster a safe biking space again (Slow Street).
- o Connect Pacific slow street to D3, e.g., Polk – Pacific and Columbus.
- **Sansome St:** Needs a bike lane; minimal parking removal required.
- **General:** On streets with 2+ lanes in each direction, need traffic diets and bike lanes: (Broadway, Sansome, Columbus, Kearny, Stockton, Sutter, Montgomery).

Nob Hill:

- California St: Needs to be safer, at least from Polk to Taylor.

Russian Hill:

- Bay St: Needs a road diet (2 lanes and a left-turn center lane).
- Lombard St: Speeding downhill; needs traffic calming.
- Jefferson St: Should be car-free.
- Francisco Park: Needs a safe way to bike there.

Financial District/ Embarcadero

- **Battery St:** Existing bike lane but need one on Sansome connecting to Columbus.
- **Washington - Drumm - Jackson - Front - Pacific:**
 - o Too complicated to explain to friends.
 - o Need a simpler route.
 - o Protected bike lanes on Broadway are necessary.
- **Embarcadero:** Extend bike lanes around the Waterfront to Presidio, Crisdy, Atlantic Park, and Fisherman Wharf.
- **Upper Market:** Work is lovely and exciting!

Tenderloin/Civic Center

- **Polk St:**
 - o Big gap in bike lanes; needs connection.
 - o Flattest route across the neighborhood; should be safe and comfortable.
 - o Needs protected bike lanes.
 - o Unprotected lanes won't work due to double parking.
- **Larkin St:**
 - o Traffic moves too fast; should be local traffic only north of California.
 - o Needs protected bike lanes or space.
 - o Add protection on Leavenworth and Larkin.
- **Sutter and Post Sts:**
 - o Should be two-way connections; dense, hilly neighborhood needs safe routes.
 - o Both needs separated or protected bike lanes.
 - o Bikeways should connect to transit at Van Ness.
 - o Protect Post across the city.
 - o Two-way separated lanes on Sutter would be great.
 - o Currently, fast cars, buses, and double parking are problems.
 - o If not making Broadway tunnel safe, remove misleading 'bike on tunnel' light.
 - o Residents use Post frequently; parking is not needed.

Western Addition

- **Western Addition:** Gap in bike infrastructure.
- **Fell and Divisadero:** Dangerous intersection.



- **Divisadero:** Consider more bike bus corridors in these commercial areas.
- **Fillmore:** Consider more bike bus corridors in these commercial areas.
- **The Wiggle:**
 - Needs more traffic calming; it's an important connector.
 - Should be clearly signed and protected if possible.
 - The wiggle in the Haight is wide enough for protected lanes.

Pacific Heights:

- **Pacific Heights:** Gap in bike infrastructure.

Haight Ashbury:

- **Haight:** Consider more bike bus corridors in these commercial areas.

Richmond:

- **Clement:** Consider more bike bus corridors in these commercial areas.
- **Richmond District:** Need a west-east connection like Broadway and Pacific.

Inner Sunset:

- **Irving St:** Consider more bike bus corridors in these commercial areas.

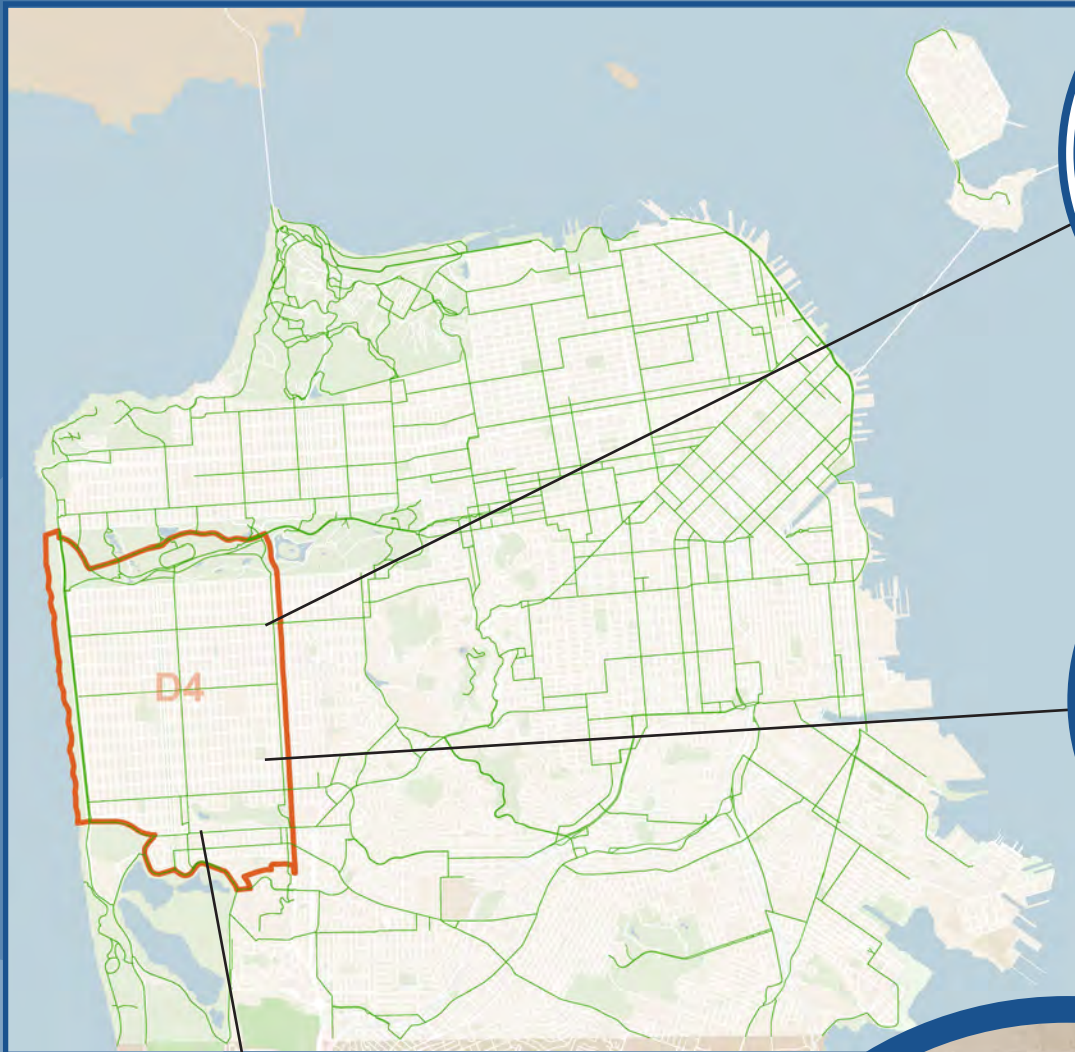
Bernal Heights:

- **Bernal Heights, Excelsior:** Missing bike shops.
- **Excelsior:**
 - **Bernal Heights, Excelsior:** Missing bike shops.



District 4 Open House

July 28, 2024 - Sunset Rec Center



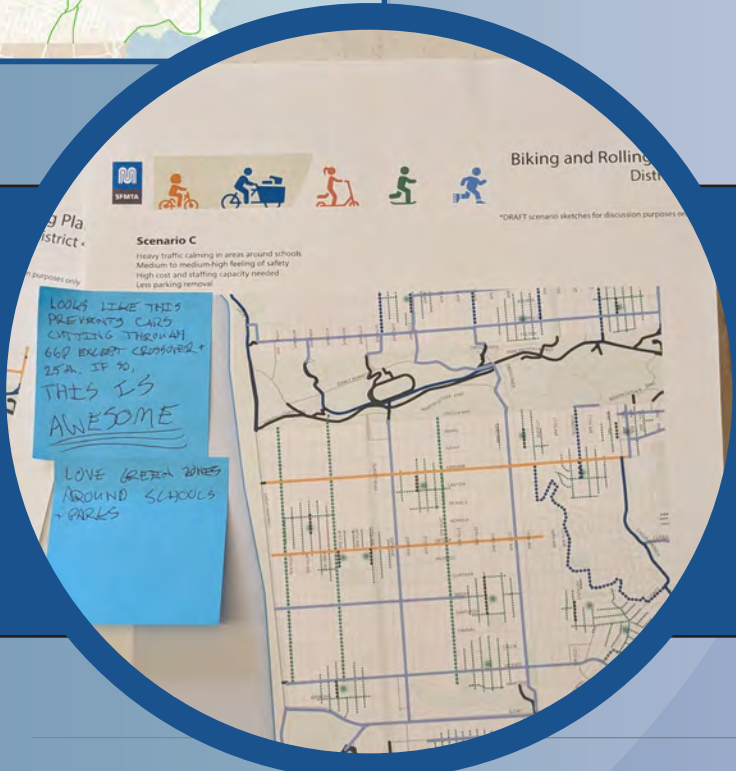
Do you currently bike or roll (skate, scooter, etc.) in San Francisco?

Yes: 45 (90%)
No: 5 (10%)

If you don't currently bike or roll, do you want to?

Yes: 1 (33%)
No: 2 (66%)

Total attendees: approx. 51



Sample of What We Heard

Below, we outline an illustrative summary of what we heard about some specific locations at the open house in District 4. SFMTA staff will use the comments to help weigh the trade-offs and refine the draft materials. Note: SFMTA staff carefully read each comment, used AI via Microsoft Copilot to help organize and summarize comments, and then verified accuracy and edited the outputs. No decisions have been made, and any proposals in the Plan will still go through project-specific outreach to refine the plans and designs of proposed bikeways.

Sunset District

- **34th Ave:** Currently a bike route but unsafe; many intersections unprotected and lack stop signs. Needs a 4-way stop at Vicente.
- **41st Ave:** Bikeway; intersection at Noriega needs a 4-way stop. Traffic calming needed on 37th - 41st Ave for students.
- **Taraval St, Vicente St, Noriega St:** Wide, fast corridors; prioritize stop signs on North/South bike routes crossing these streets.
- **22nd Ave:** Suggest new slow street
- **20th Ave:** Needs protected lanes; currently used as a loading zone. Connection to Transverse needs improvement.
- **30th Ave:** Better for biking than 28th Ave; could use a bike lane and/or traffic calming.
- **Irving St:** Room for a bike lane; should have a 4 ft bike lane, perpendicular parking, and widened sidewalk.
- **Noriega St:** Very wide; add trees to the center median. Needs a 4-way stop at 41st Ave.
- **Kirkham and Ortega:** Topographically ideal for bike lanes; need Class II or higher bike lanes where they cross Sunset.
- **Great Highway:** Keep car-free; give to pedestrians and bikes.
- **Transverse Dr:** Needs repaving; prioritize for rolling network, make a dead end for cars.
- **Sunset Blvd:** Shrink width to influence average speed.
- **7th Ave:** Bike lane is hairy but only way to Twin Peaks; needs a protected facility around southside of Twin Peaks.
- **Schools:** More 24/7 loading zones needed for after school, nights, and weekends activities.
- **General:** More traffic calming via roundabouts chicanes, protected bike lanes, bike lockers near the zoo, slow streets, parking meters, parking removal, and consistent stop signs needed. Parking-protected bike lanes to reduce vehicle speeds.

Richmond District

- **23rd Ave:** Great bike route.
- **Geary and Arguello:** Cars speeding; more protected lanes needed.
- **General:** More protected bike lanes

Golden Gate Park

- **MLK and JFK:** Cars not stopping; very unsafe. Needs a safer intersection at MLK and Transverse.
- **Transverse Dr:** Full of potholes; needs repaving badly. Connects 21st Ave to car-free JFK.
- **General:** Appreciate protected routes to get into the park for kids to ride to school.

Lakeshore

- **Lake Merced:** Should have 2-way protected bike lanes along the lake.



Ingleside/Ocean View/West of Twin Peaks

- **Ocean Ave:** Needs protected lanes.
- **Monterey Blvd:** Needs a protected bike lane.

Mission

- **Cesar Chavez:** Unsafe for bikes; needs protection.

Western Addition

- **The Wiggle:** Needs a protected bike lane; love the existing route.

Glen Park

- **Chenery St:** Necessary due to broken glass on San Jose Ave.

Civic Center/Nob Hill/Russian Hill

- **Polk St:** Needs protected bike lanes; existing system north of Pine is unsafe.

Downtown/Financial District/SoMa

- **Market St:** Needs a protected bike lane; delivery trucks often block the bike lane.
- **Howard St:** Love the protected lanes; essential.



District 5 Open House

August 27, 2024 - Park Branch Library



Do you currently bike or roll (skate, scooter, etc.) in San Francisco?

Yes: 66 (92%)
No: 6 (8%)

If you don't currently bike or roll, do you want to?

Yes: 3 (60%)
No: 2 (40%)

Total attendees: approx. 110



Sample of What We Heard by Open House

Below, we outline an illustrative summary of what we heard about some specific locations at the open house in District 5. SFMTA staff will use the comments to help weigh the trade-offs and refine the draft materials. Note: SFMTA staff carefully read each comment, used AI via Microsoft Copilot to help organize and summarize comments, and then verified accuracy and edited the outputs. No decisions have been made, and any proposals in the Plan will still go through project-specific outreach to refine the plans and designs of proposed bikeways.

Note: Many people who would have attended the District 9 Open House attended the District 5 Open House, as well as open houses, since the District 9 Open House was postponed.

Downtown/Civic Center:

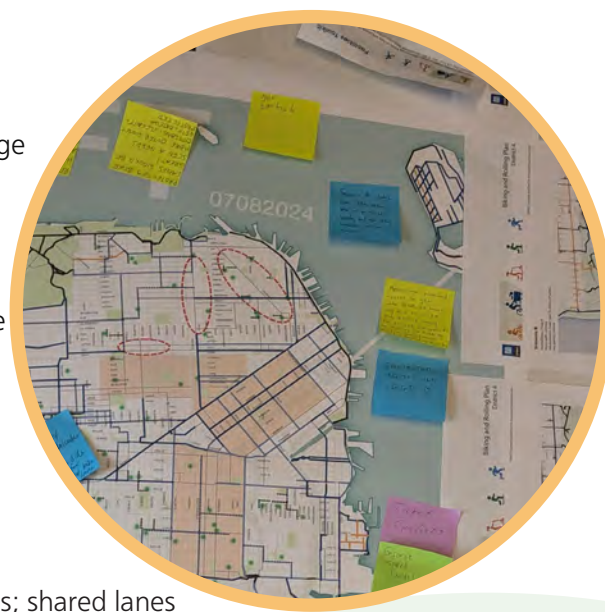
- **Market St:**
 - Improve unsafe crossings, needs repaving
 - Urgent need for paving between 4th and 8th.
 - Calls for calming measures and protected bike lanes.
 - Car-free streets should be truly car-free.
 - Concrete separation required along the entire Market St.
 - Between 4th St and 8th St, more signage and enforcement to keep cars off.
- **Union Square:** Add traffic calming around Union Square
- **Kearny St:** Needs protected lanes due to safety concerns.
- **Polk St:** Finish the Polk bike lane (fully protected). (+1) (+1)
- **Tenderloin:** Advocacy for 2-way bike lanes on every street.
- **Valencia Street to Polk St:** Appreciation for fast biking options.
- **McAllister St:** Add a protected bike lane connecting McAllister St and Polk St.
- **Post St:** Add east-west connection on Post or other street.

Western Addition/Hayes Valley:

- **North-South Routes:**
 - Need more protected bike routes north-south.
- **McAllister St:**
 - Request for paving despite sewer work.
 - Desire for an improved alternative to avoid the Wiggle.
- **Masonic Ave:**
 - Traffic calming near Raoul Wallenberg HS.
 - Cut-through traffic from the Target mall area.
- **Divisadero St:**
 - Bike lane next to Arco at Fell St is dangerous.
 - Urgent need for signaling and protection.
 - Explore bus and bike-only routes.
- **Oak/Masonic Intersection:**
 - Noted as dangerous.
- **Wiggle:**
 - Needs traffic calming and protected bike lanes, no mixing zones with cars on Fell and Oak. Currently weak point on network to 4th and King
- **Golden Gate Ave:**
 - Add car-free or protected bikeways connecting to Golden Gate.



- o Extend bike lane to Scott Street; current abrupt end is problematic.
- o Broderick: Misplaced speed hump.
- o At Turk St: No one-way designation.
- **Scott St:**
 - o Connect Scott St between Fulton and Clay to bridge the north-south gap in bike infrastructure.
- **Geary Blvd:**
 - o Explore bus and bike-only routes.
- **Buchanan Mall and Hayes Valley:**
 - o Connect Buchanan Mall with Hayes Street and the Hayes Valley Rec Center.
 - o Tie Fulton Street bike lanes to Buchanan Mall renovations for a safer north/south arterial.



Japantown:

- **Bush St:**
 - o Narrow; two bike lanes may block traffic.
- **Post + Sutter:**
 - o Opposition to dedicated lanes; shared lanes acceptable.
- **General comments about Japantown**
 - o Need comprehensive community process in Japantown
 - o Insufficient space for bicycles in Japantown.
 - o Few bikers; mostly commuters.
 - o Limited demand for bike routes.
 - o Promote cycling culture from preschool.
 - o Lack of scooter docks; littering issue.
 - o Suggest re-exploring e-bike rentals.
 - o Request for better organization for e-bike and scooter parking.
 - o Consider impact on community due to past racism.
 - o Caution when removing parking.
 - o Some seniors don't bike.
 - o Commuters and volunteers bike to Japantown.
 - o Increase access Japantown (+1) (+1).
 - o To address perception that cyclists only pass through Japantown, offer bike riding lessons, safety education, and more bike routes.



Haight Ashbury:

- **Haight St:**
 - o Explore bike and bus-only routes.
- **Sanchez + Steiner:**
 - o Appreciation for the slow route; well-received.
- **Stanyan Cycle :**
 - o Add dedicated cycle paths on Stanyan Street.
- **Oak St:**
 - o Importance of Oak Street between Panhandle and Scott Street.
 - o Keep the protected bike lane separate at intersections, as the lane on Fell St is not separate.
- o Personal experience with blocked lanes due to neighbors and delivery services.

Castro/Upper Market:

- **Market St:**
 - Calming measures ineffective due to limited turns; propose moving turns to Castro and Church.
 - Connect missing bike lane spots from Page to Market.
 - Address challenges getting onto the Wiggle from Church.
- **17th St:**
 - Major east-west Connection but currently weak point
 - Appreciation for existing lane; vital access to Mission.
 - Extend protected lane between Valencia and Sanchez.
- **Upper Market:**
 - Advocate for protected bike lanes between Castro and 19th St
 - Improve Class 3 on Corbett for Caselli neighborhood access.

Mission:

1. **General:** Current bike infrastructure in Mission is weak point.
2. **Harrison St:**
 - Advocate for north/south protected lane for groceries and activities.
 - Essential connection for Mission Cliffs, Gus's, Jolene's, etc.
3. **17th St:**
 - Prefer fully protected lanes from Harrison to Illinois.
 - Address safety concerns for cargo bikes.
 - Extend quick-build to Valencia
4. **Mission Routes:**
 - Protect east/west routes through the Mission.
 - Explore alternatives if Valencia St can't be protected.
5. **Valencia Street:**
 - Implement 4-way stops at key intersections (McCoppin, 15th, 17th, 19th, 20th, 21st, 22nd, 23rd, 25th, 26th).
 - Explore bus and bike-only routes.
6. **Cesar Chavez St:**
 - Add bike lane
7. **15th St:**
 - Convert to two-way with traffic calming measures.
 - Add traffic calming measures from Church to Harrison.
8. **13th/Division Intersection:**
 - Urgently address issues west of Folsom.

Noe Valley:

- Cycling paths and road diet on Dolores from 19th to Market

Financial District:

- **General:** More protected bike routes in Financial District
- **Market St:** More bike access on Market.
- **Market to Stockton Tunnel:** Improve connections.
- **2nd St, Battery St, and 11th St:** Address infrastructure needs.
- **Pine and Bush Streets:** Evaluate for enhancements.
- **Post St:** Prioritize protection measures.
- **Montgomery St:** More protected bike routes.
- **Bay Bridge:** Establish bike path; Enhance bike accessibility.

Chinatown:

- **General:** Protected bike lanes in Chinatown.

North Beach/Russian Hill:

- **Embarcadero:** Connect Embarcadero to Fort Mason along Jefferson/Waterfront

Marina:



- **General:** More north-south connections to the Marina
- **Steiner St:** Add Steiner Slow Street

Potrero Hill:

- **Mariposa and Indiana:** Currently, there's no left turn allowed from Indiana but bicyclists from Caltrain take illegal left due to convenience. Address this left turn for bicyclists.
- **17th St:** Appreciation for existing lane; vital access to Mission.

Presidio:

- **Baker Beach:**
 - o Allow left off El Camino Del Mar onto the parking lot. Bike access to Baker Beach from the south.
 - o Add green bike path off El Camino Del Mar to Baker Beach

Richmond:

- **General Outer Richmond:** There's a big gap in the outer Richmond. Need bike facilities there because the roads are wide and cars drive fast.
- **Arguello:**
 - o Road diet and cycle paths on Arguello - sidewalk level cycle paths
 - o Blended Scenarios A/B for Arguello. Cars and delivery vans double park there all the time.
- **Balboa St:** Add westbound bike route on Balboa and additional east-west routes south of Geary.

Golden Gate Park:

- **General:** Connect Golden Gate Park with car-free or protected bike lanes
- **Kezar Dr:**
 - o Riding with cars feels unsafe, connection to Oak Street is unclear. Consider having it stay on park side and crossing over at Panhandle instead of at Kezar.
 - o Make it car-free. +1
- **JFK Promenade:**
 - o Add striping for safety.
 - o Need something on the western portion of JFK.
- **MLK to Great Highway:** Install bike signaling.
- **Lincoln:**
 - o Create a protected, two-way bike lane on the north side.
 - o Implement a two-way protected cycle path on the park side from Stanyan to Great Highway

Sunset

- **Irving St:** Please consider improvements on Irving! This is the fastest route and currently very dangerous.
- **Kirkham St:** A friend lives near Kirkham and says people speed through stop signs - and make it dangerous to walk.
- **Parnassus Ave:**
 - o Construction at UCSF makes creating a bike lane complex.
 - o Fix the blind and confusing conditions at Willard.

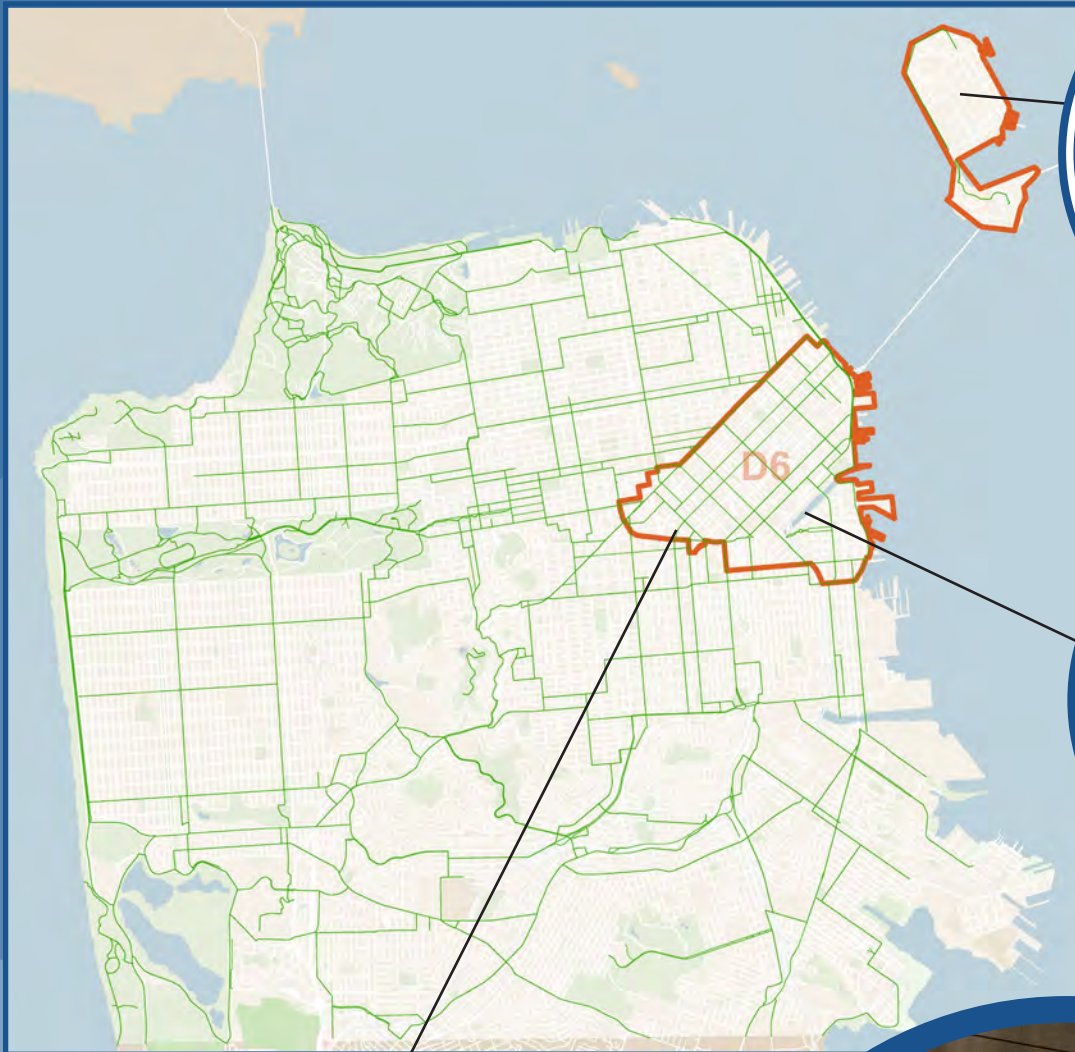
Lakeshore:

- **Lake Merced Blvd:** Connections between Brotherhood Way and Ocean Ave.



District 6 Open House

August 14, 2024 Salesforce Transit Center Grand Hall



Do you currently bike or roll (skate, scooter, etc.) in San Francisco?

Yes: 38 (79%)
No: 10 (21%)

If you don't currently bike or roll, do you want to?

Yes: 6 (67%)
No: 3 (33%)

Total attendees: approx. 49



Sample of What We Heard

Below, we outline an illustrative summary of what we heard about some specific locations at the open house in District 6. SFMTA staff will use the comments to help weigh the trade-offs and refine the draft materials. Note: SFMTA staff carefully read each comment, used AI via Microsoft Copilot to help organize and summarize comments, and then verified accuracy and edited the outputs. No decisions have been made, and any proposals in the Plan will still go through project-specific outreach to refine the plans and designs of proposed bikeways.

Mission Bay:

- **4th St Bridge:**
 - Address significant gaps and prevent cars from passing and add signage.
 - Bridge can be slippery when wet.
- **3rd St:**
 - Remove a travel lane due to overbuilt traffic capacity.
 - Bridgeview Way and Tony Stone Xing channel have a shared-use path at 3rd and 4th. Needs a signal from the path to connect across 3rd.
 - At Terry Francois near Chase Center, install bike sensor.
- **Mission Bay Blvd:** Improve crossing and prioritize bike facilities.
- **7th St and Mission Bay:** Add bike facilities to cross the tracks. Difficult to merge into traffic at roundabout, too wide.
- **Mississippi to 7th St:** Dangerous slip lane that cars use to go to freeway, blocks visibility
- **Mission and Channel Roundabout:** Add bike protection alongside pedestrians.
- **General:** Talk to Spark Social about the park.

SoMa:

- **Beale St:** Extend bike path to Embarcadero.
- **Townsend St:** Make it fully safe for biking between 4th and Embarcadero.
- **5th St:** Improve bike signals and add more protection.
- **13th/Division:** Need more crosstown connections.
- **5th and Bryant/Harrison:** Simplify cross signals for pedestrians.
- **Berry St:** Address issues with dumpsters in bike lanes.
- **4th and King:** Ensure physical protection from cars.
- **4th St:**
 - Prevent car parking in bike lanes.
- **3rd St:** Redesign for pedestrians, narrow street to reduce speeding, enforce wrong-way drivers.
- **2nd St:** Improve turn onto Howard.
- **General:** Add protected lanes on every one-way street, improve wayfinding, and add mid-block crossings between SoMa and South Beach.

Financial District/Chinatown/North Beach:

- **Embarcadero:** Ensure continuous, protected bike lanes from the ballpark to Fisherman's Wharf.
- **Montgomery St:** Add bike lanes. However, challenging to find good option with businesses.
- **Sutter St:** Make the protected lane two-way.
- **Chinatown:** Improve bike paths.
- **Columbus St:** Add bike facilities on flat streets.
- **General:**
 - Create a dense bike network similar to Treasure Island.

Downtown/Civic Center

- **Mid-Market:** Existing lanes need additional connections to Mission and SoMa. Protected lanes Safer except at



driveways.

Western Addition

- Connect Golden Gate and Turk St to complete connection - lots of schools

Mission

- **East/West Routes:** Improve protected lanes.
- **Schools:** Expand calmed zones around schools.
- **15th St:** Link Valencia Gardens and wiggle to BART and Marshall Elementary.
- **Guerrero:** Prefer Valencia as an option due to hills.
- **Valencia:**
 - Improve left from Market to Valencia.
 - Wish Valencia was done differently.
- **17th St:** Improve protected lanes.
- **General:** Implement traffic calming around schools.

Potrero Hill/Dogpatch:

- **Illinois St:** Cars park on sidewalk and in bike lane.
- **Mississippi St:**

Richmond

- **7th Ave:** Avoid further disruptions due to parent drop-off/pick-up.

Sunset:

- **Irving vs Kirkham:** Irving is better for biking due to less steepness and more businesses; needs more infrastructure.
- **Kirkham and Ortega:** Address why they remain class II without improvements.
- **General:** Install parking-protected bike lanes.

Parkside/Lakeshore

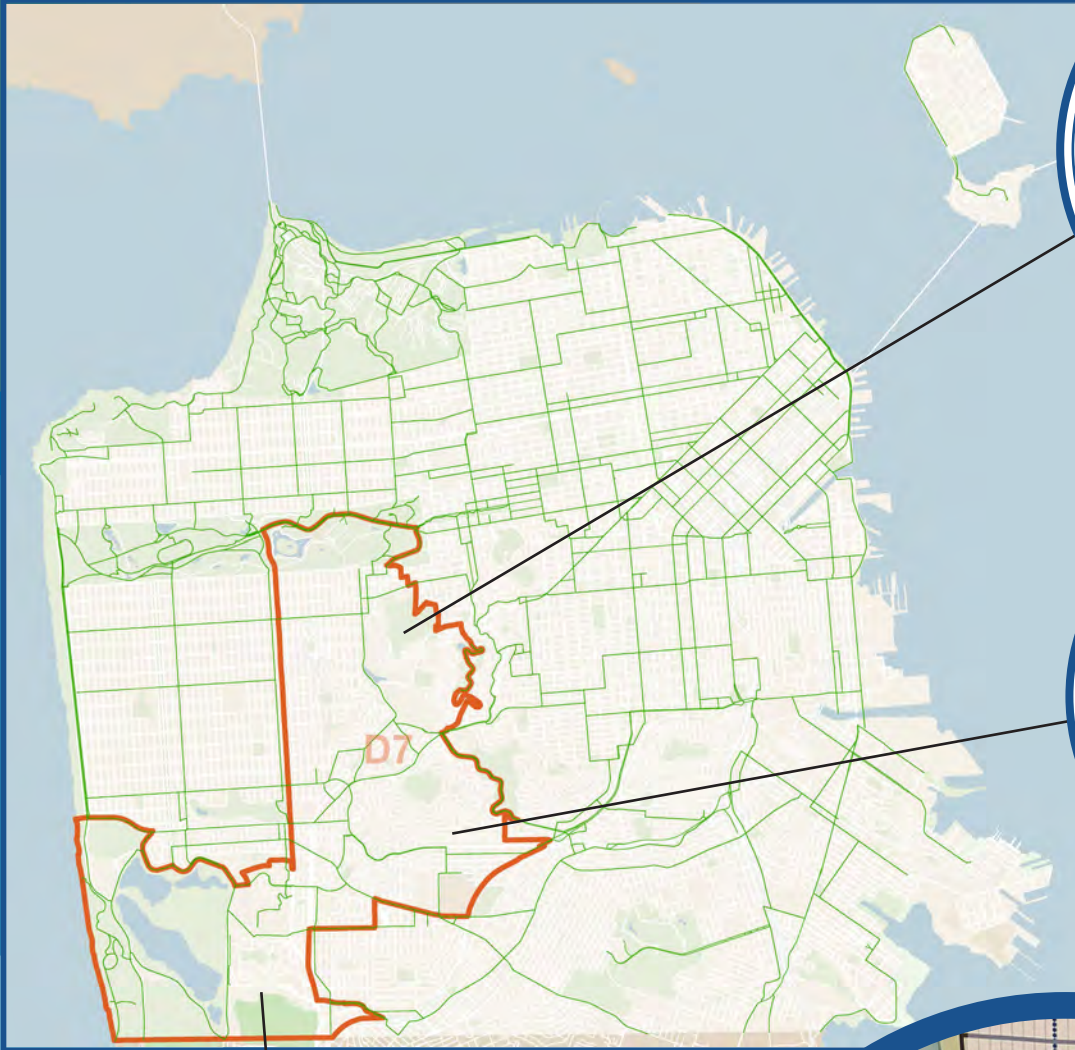
- **West Side:** Focus on protected lanes on streets like Sloat and Portola.

SF State: Add safer connection from SF State north via Stonestown.



District 7 Open House

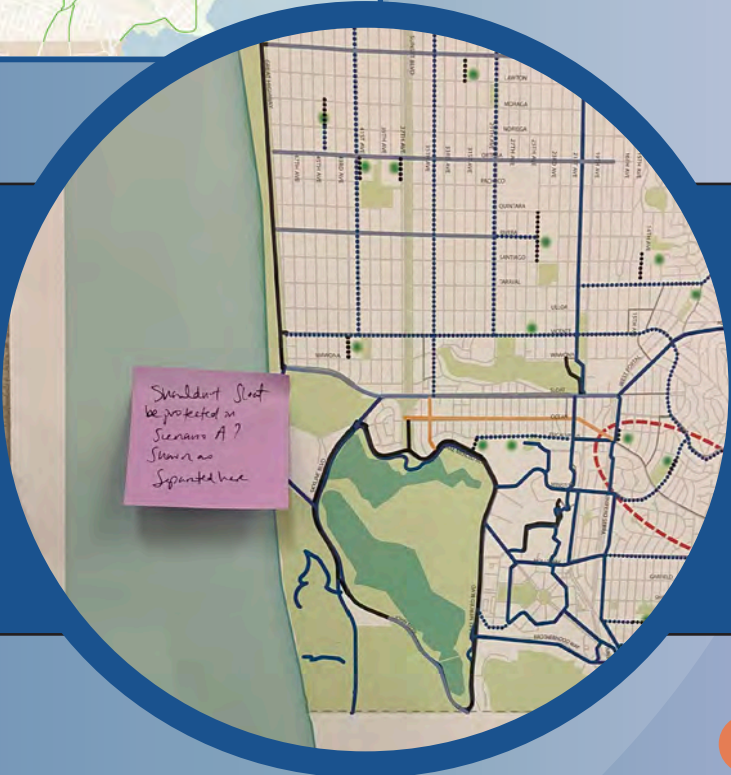
July 17, 2024 - Cesar Chavez Student Center



Do you currently bike or roll (skate, scooter, etc.) in San Francisco?
Yes: 7 (70%)
No: 3 (30%)

If you don't currently bike or roll, do you want to?
Yes: 2 (67%)
No: 1 (33%)

Total attendees: approx. 10



Sample of What We Heard

Below, we outline an illustrative summary of what we heard about some specific locations at the open house in District 7. SFMTA staff will use the comments to help weigh the trade-offs and refine the draft materials. Note: SFMTA staff carefully read each comment, used AI via Microsoft Copilot to help organize and summarize comments, and then verified accuracy and edited the outputs. No decisions have been made, and any proposals in the Plan will still go through project-specific outreach to refine the plans and designs of proposed bikeways.

Parkside/Lakeshore

- **Sloat Blvd:** Should be protected in Scenario A but is shown as separated.

Sunset

- **Great Highway:** Existing bike paths need smoothing.

Inner Sunset

- **Irving St:** No street parking near Pasquale's Pizza.

Ingleside/Ocean View/West of Twin Peaks

- **Monterey Blvd:** High traffic; Yerba Buena Ave could be an alternative if made bike-friendly.
- **Santa Clara St:** Underutilized by cyclists; could divert traffic from Yerba Buena Ave if made more bicycle-friendly.

Height/Ashbury

- **Cole Valley:** Parking issues lead customers to opt for Home Depot instead.
- **17th St:** From Market to Clayton is very steep with heavy car traffic congestion.

Outer Mission

- **San Jose Offramp:** Proposal for a two-way cycle track.

Lakeshore

- Students drive to school due to unsafe biking conditions.

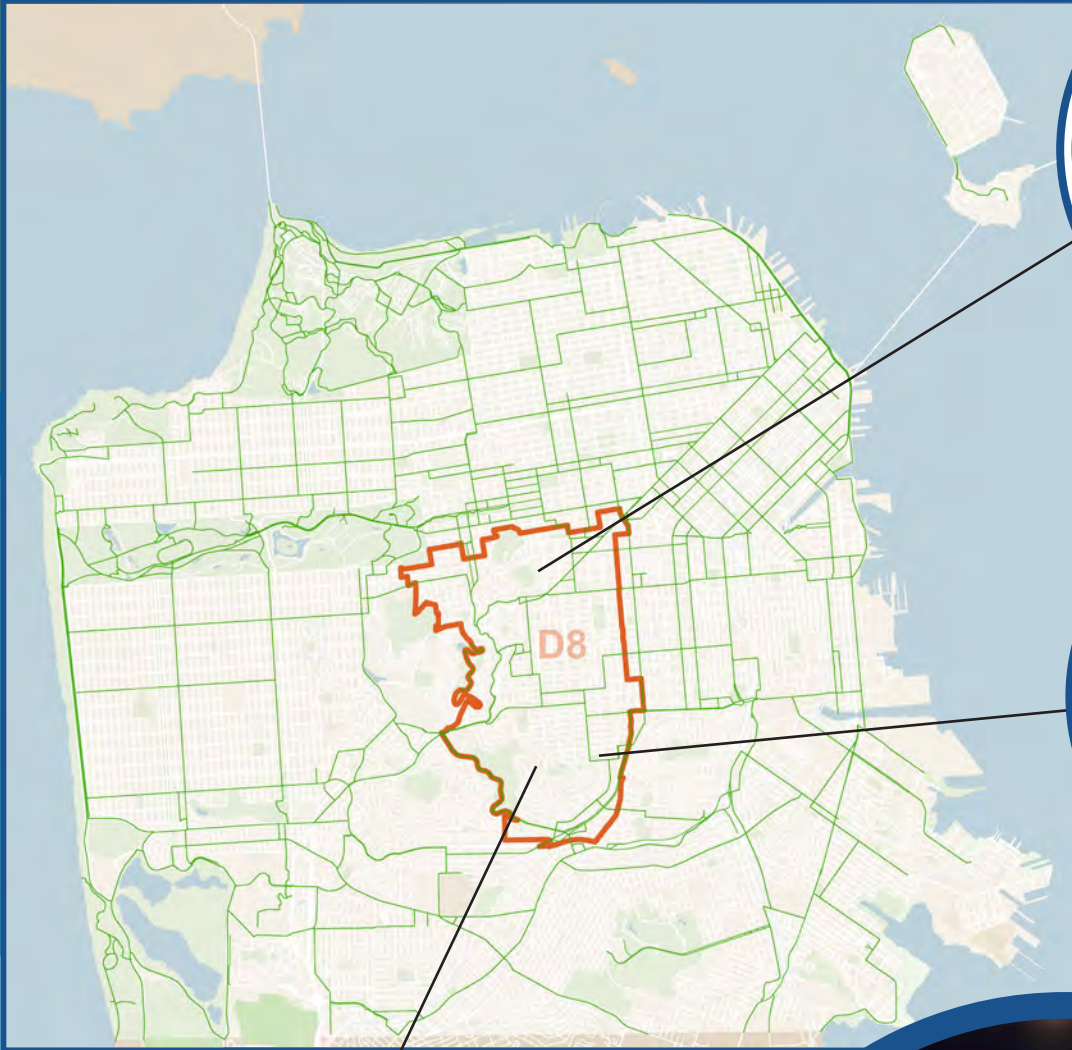
Downtown

- **The Embarcadero:** Speeding cars are a significant problem.
- **Tenderloin:** Service and emergency vehicles often double park, making fully protected bike lanes challenging.



District 8 Open House

July 10, 2024 - Upper Noe Rec Center



Do you currently bike or roll (skate, scooter, etc.) in San Francisco?

Yes: 37 (76%)
No: 12 (24%)

If you don't currently bike or roll, do you want to?

Yes: 1 (9%)
No: 10 (91%)

Total attendees: approx. 52

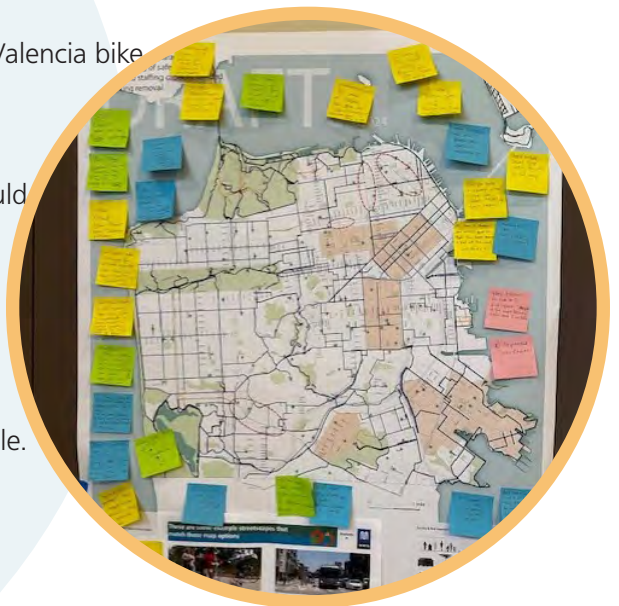


Sample of What We Heard

Below, we outline an illustrative summary of what we heard about some specific locations at the open house in District 8. SFMTA staff will use the comments to help weigh the trade-offs and refine the draft materials. Note: SFMTA staff carefully read each comment, used AI via Microsoft Copilot to help organize and summarize comments, and then verified accuracy and edited the outputs. No decisions have been made, and any proposals in the Plan will still go through project-specific outreach to refine the plans and designs of proposed bikeways.

Mission

- **Cesar Chavez St:**
 - Needs a major overhaul from Sanchez to 3rd St due to dangerous conditions and high bike traffic. Should be protected for bikes; map is incorrect all the way to the bay.
 - Fast, direct, and flat but not safe; requires fully protected lanes to ensure safety and high-quality biking facilities.
- **Valencia St:**
 - Loved the Valencia Center Bike lane; consider trying again on a lower traffic road. Extend separated bike lane between 23rd and Cesar Chavez for safe cycling.
 - Connect Valencia to Tiffany to 29th to Sanchez. Questioning why there are still no plans for Valencia south of 23rd.
- **Folsom St:**
 - Prefer one street with a two-way bike lane for safety and speed.
 - Keep Folsom as the N-S bike route over South Van Ness.
 - Downtown: enforce 'No Right Turn' to ensure bike lane safety.
 - Implement protected lanes from 11th to Cesar Chavez and Harrison from 11th to 20th.
- **Potrero Ave:**
 - Prefer protected bike lanes; need a way across Potrero by Potrero del Sol Park to Cesar Chavez.
- **South Van Ness Ave:**
 - Use Capp St for bikes; it's car-free by neighborhood consensus.
 - 90s City Plan: S. Van Ness for cars, Mission for transit, Valencia for bikes; plan not followed.
- **17th St:**
 - Extend bike lanes to Mission for flat access to Potrero and Caltrain.
 - Protected lanes from Valencia to Harrison; continue them.
 - No change needed; essential for car crossing.
- **19th St:**
 - Slow Street between Dolores and Folsom.
- **22nd St:**
 - Need a protected lane going east from Church to get to Valencia bike lane and BART.
 - More love for 22nd St to Chattanooga to 24th St.
- **26th St:**
 - Parents take 26th St between Valencia and Sanchez; should be safer for bikers.
- **Church St:**
 - Many pedestrians are elderly or children; cars don't stop for them.
 - Discourage cars from crossing at 28th St; right turn only for safety.
 - Allow cars to cross Market at Church St to avoid the wiggle.
 - Modal filter at 28th and Church.
 - Protected lane needed by Mission High School.



- **Dolores St:**
 - Between 30th and San Jose: two lanes wide but cars only use one lane, leaving ample room for a bike lane.
- **San Jose Ave:**
 - Make San Jose Ave safe for cyclists.
 - Extend cycle track protection to beginning and end from Randall to Glen Park/Bosworth.



Noe Valley

- **24th St:**
 - Have secure bike parking at Noe Valley and at Valencia St.
- **Sanchez St:**
 - Add calmed streets in Noe Valley between 24th and 17th; wide and spacious.
 - More ideas needed for Sanchez between 17th and Duboce; important but dangerous connector.
- **Duncan St:**
 - Between Sanchez and Valencia southbound designated as a sharrow for bikes.
 - Best for bikes between Sanchez and Valencia.
- **Diamond St:**
 - Very steep; cars travel downhill running through all the stop signs. Speed bumps are supposed to be put in but will not make it safe.
- **Eureka St:**
 - Bus street; can't be made a slow street.
 - Concerns about losing parking on Eureka.
- **Douglas St:**
 - Great for bicyclists; great route that serves many uses (23rd - 17th).

Glen Park

- **Bosworth St:**
 - Residents need parking; Chilton is a dead end, access via Bosworth.
 - Traffic issues on Bosworth and Diamond; no proposals for Diamond.
 - Clarify bike lane proposals between Elk and Diamond.
 - Existing bike lane is functional; no changes needed.
 - Add a protected lane.
 - Remove unused bus lane at Elk.
- **Chenery St:**
 - Slow street proposal rejected; honored.
 - Support bike path on Arlington, not Chenery.
 - Include cars; allow right turn on red at Bosworth.
 - Too narrow for bike path; bus line (36) uses it.
 - Already safe for all; no changes needed.
 - Replicate traffic calming elsewhere.
 - Against slow Chenery streets; will affect neighboring streets.
 - Marked on "Network Certainty" map; under discussion?
- **Elk St:**
 - Steep terrain from Diamond Heights to Bosworth; high traffic and garage exits.
 - Too steep for bicyclists; no space for bike lanes.
 - Fast and steep with many garages/driveways; difficult for non-ebikers.
- **Miguel St:**
 - Clearly mark as a bike way; ideal route from Chenery/Arlington to Cortland St.

- **O'Shaughnessy Blvd:**
 - Improve protected lanes.
 - Widen side path to 22' for bikes and pedestrians; extend Class I path from O'Shaughnessy to San Jose.
 - Enhance safety at Bosworth/O'Shaughnessy.

Castro/Upper Market

- **Market St:**
 - Direct cars to cross Market St on Church, not Sanchez.
 - Ensure uninterrupted bike space.
 - Create safe bike routes in the Castro on Market St and Castro St to 17th St.
 - Clarify and discuss the Upper Market plan.
- **Church St:**
 - Allow cars to cross Market at Church St.
 - Install modal filter at 28th and Church.
 - Add protected bike lane by Mission High School.
- **17th St:**
 - Essential car route between Market and Stanyan.
- **Clayton St:**
 - Ensure good separation near 17th/Twin Peaks due to high car and bike traffic.
 - Add bulbouts for Oak and Clayton.

Downtown/Civic Center

- **5th St:**
 - Parking garage entrance is hard to find and too small for cargo and other bikes.
- **Van Ness Ave:**
 - Northbound barely used by cars due to proximity to Franklin. Reduce or eliminate N Bound roadway and install protected bike lanes for better connectivity.
 - Less hilly; Larkin is very hilly.
- **Ellis and Eddy St:**
 - Two-way: buses on Ellis and bikes on Eddy.
- **Golden Gate and Turk St:**
 - Two-way: buses on Turk and bikers on Golden Gate.

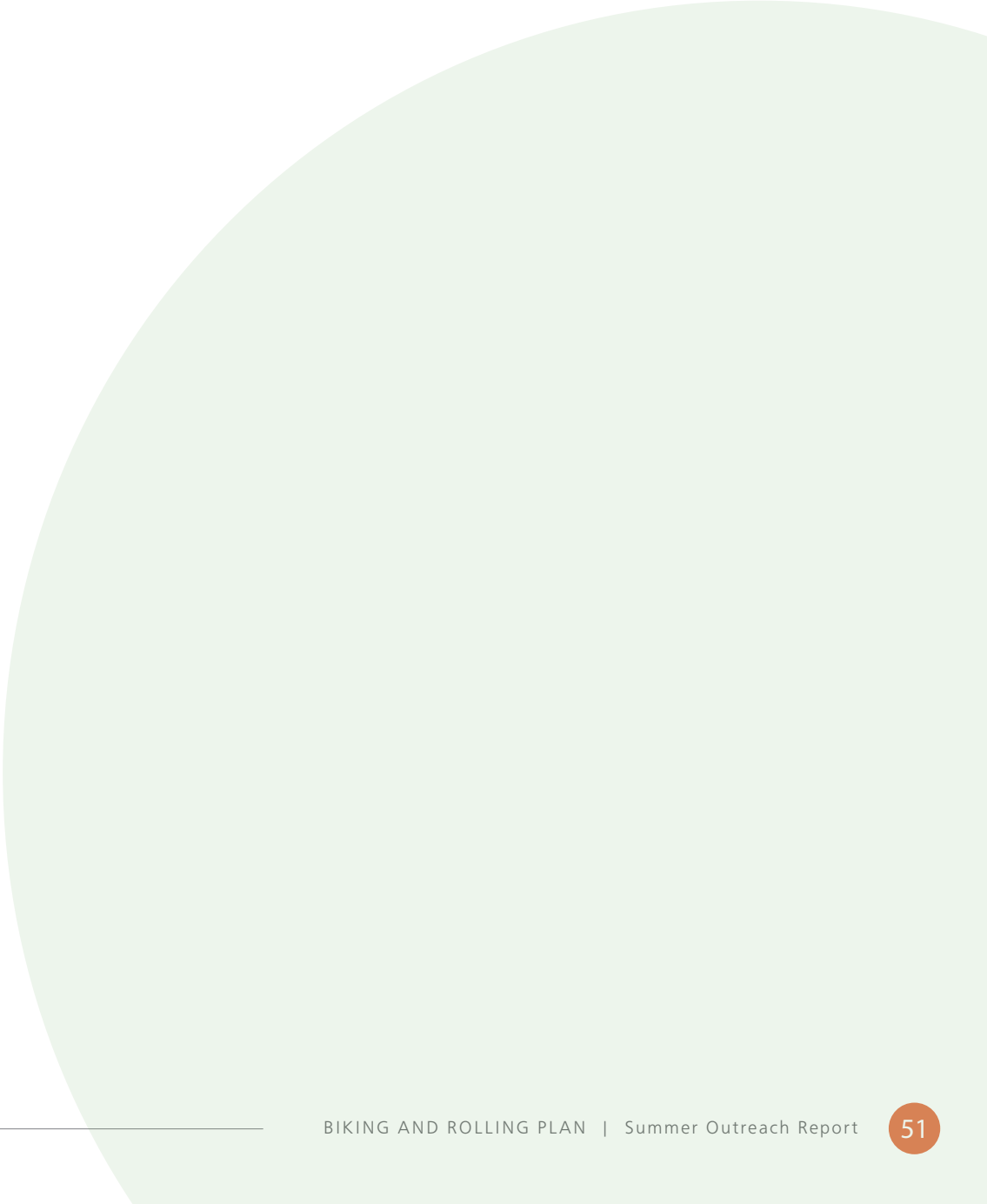
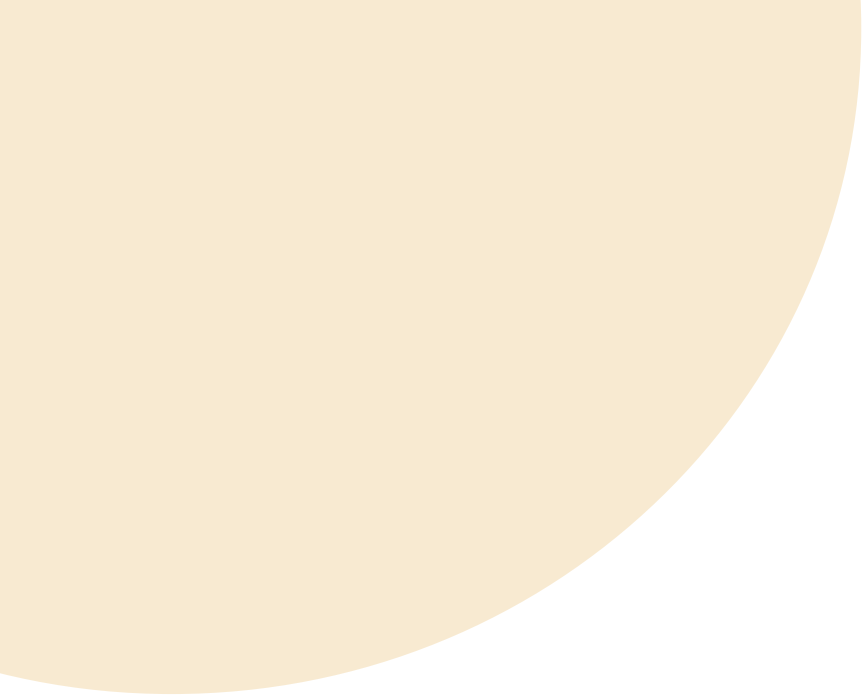
Financial District

- **Ferry Building:**
 - Why does the Farmers Market close the Ferry Building bike lane?
- **Battery St:**
 - Would be great to finish Battery from Embarcadero to Market and Van Ness.

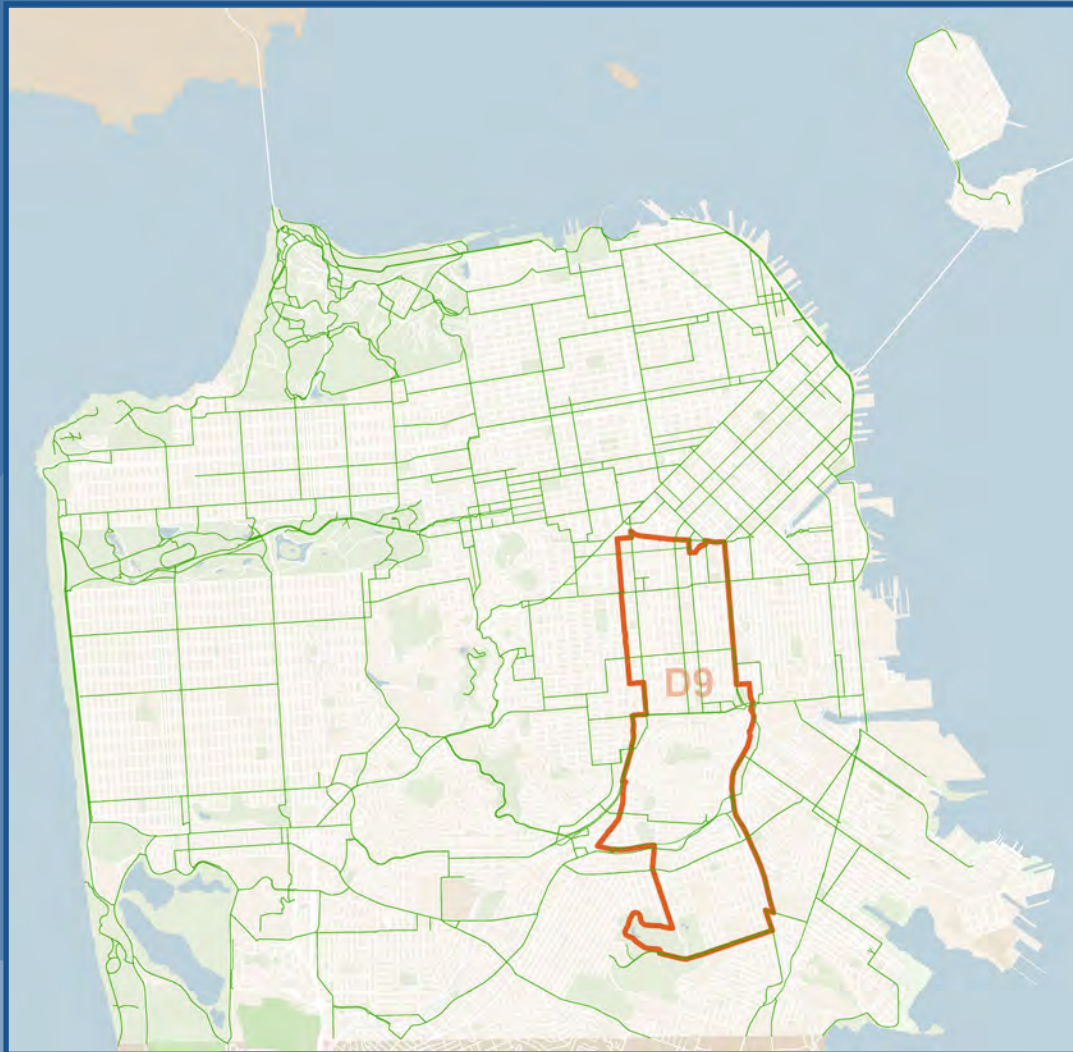
Haight Ashbury/Golden Gate Park

- **Panhandle**
 - Move bikes for pedestrian space; ensure bike routes are shady, pretty, and safe. Panhandle has better pavement than Oak/Fell. Expand car-free spaces in Golden Gate Park.





District 9 - Open House Postponed



The SFMTA postponed the open house originally scheduled in District 9 after hearing feedback to allow community to process more pressing issues in neighborhood. Many people who planned to attend the District 9 Open House attended the District 5 Open House, as well as other open houses.

District 10 Open House

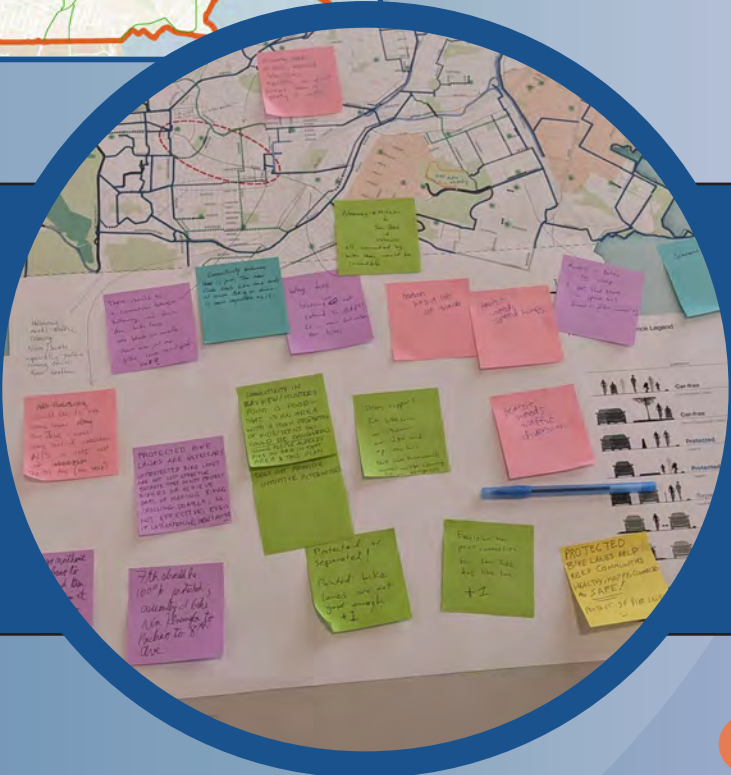
July 15, 2024 - Southeast Community Center



Do you currently bike or roll (skate, scooter, etc.) in San Francisco?
Yes: 25 (61%)
No: 16 (39%)

If you don't currently bike or roll, do you want to?
Yes: 3 (27%)
No: 8 (73%)

Total attendees: approx. 43



Sample of What We Heard

Below, we outline an illustrative summary of what we heard about some specific locations at the open house in District 10. SFMTA staff will use the comments to help weigh the trade-offs and refine the draft materials. Note: SFMTA staff carefully read each comment, used AI via Microsoft Copilot to help organize and summarize comments, and then verified accuracy and edited the outputs. No decisions have been made, and any proposals in the Plan will still go through project-specific outreach to refine the plans and designs of proposed bikeways.

Dogpatch/Bayview/Mission/Bernal

- **Cesar Chavez St:** Protect bike lanes and improve pavement. Address safety at highway off-ramps. Add tech bus stops that do not block bike lanes.

Dogpatch

- **22nd St:**
 - Fix light timing at 22nd and 3rd St. to improve pedestrian safety.
 - Make 22nd St a more walkable commercial corridor.
 - Add a bike lane from Indiana to Pennsylvania.
 - Address loading concerns and improve safety for bikes and pedestrians.
- **Mariposa St:**
 - Implement traffic calming west of 280 to reduce cut-through traffic.
 - Improve safety at the blind corner of Mariposa and Indiana.
 - Add new physical infrastructure, no sharrows.
- **Indiana St:** Improve safety between Mariposa and 22nd.
- **Illinois St:**
 - Maximize protected bike lanes and remove defunct Muni tracks.
 - Address loading concerns from 20th to 23rd.
 - Improve safety for bikes and pedestrians, especially on game days.
 - Consider fully protected bi-directional bike lanes.
- **Tennessee St:**
 - Consider as an alternative to Illinois with more infrastructure and safety improvements.
 - Add a 4-way stop at 19th St.
- **Cargo Way:** Improve bike lane maintenance and add mid-block ramps.
- **Minnesota St:** Leave bike lanes as is or reroute through Minnesota St.



- **Connections to Golden Gate Park:**

- Provide a truly safe route to bike from Dogpatch to Golden Gate Park.
- Address cut-through traffic due to trucks coming off the highway.
- Improve bike safety, especially for families biking with toddlers.

Bayview

- **Bay Trail:** Complete the Bay Trail into Shipyard.
- **Connections to Mission District and Bernal Heights:**
 - Provide safe bike routes from Mission and Bernal to Heron's Head Park.
 - Increase Baywheels docks.
 - Implement green wave timed lights for the Bayview route.
 - Address safety concerns with freeway crossings.

Bernal Heights

- **Alabama St:** Add speed bumps between Precita and Ripley. Improve hill climb routes: Alabama > Mullen > Brewster > Franconia > Esmeralda > Bernal Heights Blvd.
- **Mullen Ave:** Add Slow Street between Alabama and Brewster.
- **Precita Ave:** Add Slow Street in front of Leonard Flynn School. Improve bike routes and add sidewalks.
- **Cortland Ave:** Add a bike lane on Cortland in both directions between Mission and Bayshore.
- **Connections to Caltrain, Mission District, Bayshore:** Improve bike routes to Caltrain, 24th/Mission BART, and Alemany Farmers Market. Connect Valencia bike lane to Bernal and Mission going east other than Cesar Chavez. Provide a safer bike route from Bernal to Caltrain. Improve connection between Bernal and Bayshore.
- Add protected bike lanes and improve safety around parks and schools.

Russian Hill

- **Polk St:** Improve bike safety and connectivity to Embarcadero Path.

South of Market

- **Near ballpark and stadium:** Address safety concerns with tech buses, game traffic, and poorly maintained paths.
- **Connections to Mission:** Provide access to 17th, 18th, 7th, and 4th streets.

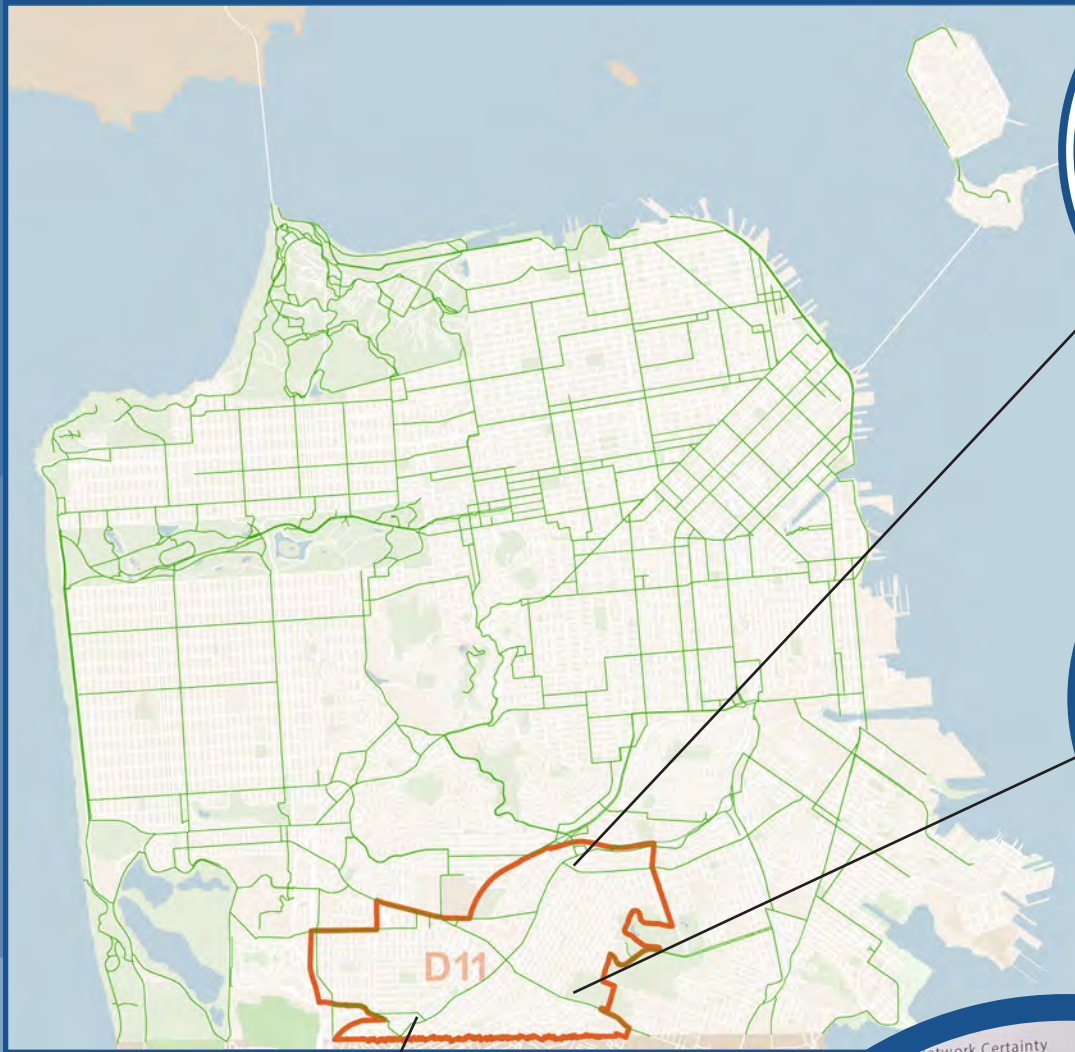
Sunset

- Improve bike access to restaurants and businesses, especially south of Golden Gate Park.



District 11 Open House

August 4, 2024 - Minnie & Love Ward Rec Center



Do you currently bike or roll (skate, scooter, etc.) in San Francisco?

Yes: 16 (84%)
No: 3 (16%)

If you don't currently bike or roll, do you want to?

Yes: 3 (100%)
No: 0 (0%)

Total attendees: approx. 20



Sample of What We Heard

Below, we outline an illustrative summary of what we heard about some specific locations at the open house in District 11. SFMTA staff will use the comments to help weigh the trade-offs and refine the draft materials. Note: SFMTA staff carefully read each comment, used AI via Microsoft Copilot to help organize and summarize comments, and then verified accuracy and edited the outputs. No decisions have been made, and any proposals in the Plan will still go through project-specific outreach to refine the plans and designs of proposed bikeways.

Ocean View

- **Holloway Ave:**
 - Paint the bike lane; street width is an issue.
 - Traffic circles and bulbouts worsen the situation.
 - Intersection with Junipero Serra Blvd is too wide; unsafe to cross.
 - Conflict with 29 bus and cars turning off Junipero Serra.
 - Needs traffic calming from Beverly St to Lee St, especially traffic from Grafton.
 - Minimal changes between Ashton and Junipero Serra; maybe paint the bike lane.
 - Connect Holloway and Ocean Ave bike lanes; one block on unsafe Ocean Ave is not good.
- **Randolph St:**
 - Make bike-friendly at Arch St; sketchy, blind curve at Orizaba St.
 - Conflict with rail tracks at Arch St; need escape ramp on other side of train ADA ramp.
 - Needs protected bike lanes (not sharrows).
 - Traffic calming needed from Orizaba Ave to 19th Ave.
- **Junipero Serra Blvd:**
 - From Ocean Ave to Moncada Way: No connection, heavy traffic, no bike access except sidewalk; school route.
 - From Moncada Way to Ocean Ave: Use Urbano to Moncada, act as pedestrian at Ocean and Junipero Serra; official crossing needed.
 - From Winston Dr to Ocean Ave: Desire for two-way protected bike lane.
 - West frontage road is a better route than Junipero Serra Blvd from Holloway Ave to Ocean Ave.
- **Ocean Ave:**
 - Needs prioritization over Sloat.
 - Gap at Ocean Ave/Lee St to Ocean Ave/Frida Kahlo Way.
 - Sketchy left turn at Frida Kahlo Way; needs protected left turn.
 - Surprised Ocean Ave is “low certainty” given frequent cyclist use.
 - Poor connectivity between lanes.
 - New Frida Kahlo bike lane ends at Ocean.
 - Remove freeway ramps on Ocean; dangerous and redundant with ramps on Geneva.
- **Brotherhood Way:**
 - Must be a physically protected bikeway.
 - Traffic over 40mph; needs protected bike lanes.
 - Direct access to greenspace for Ocean View/Merced Heights/Ingleside.
- **Capitol and Lakeview:** Needs traffic calming.
- **East/West Connections:** Missing in OMI south of Grafton/Sargent/Lakeview.



Outer Mission

- **Bosworth St:**
 - Important for BART and 280 access; heavy car traffic.
 - Create a separated bike lane; better than changing Chenery.
- **Geneva Ave:**
 - Used by recreational cyclists; currently unprotected and unpleasant.
 - Extend bike lane to BART; main destination for bikes.
- **Alemaný Blvd:**
 - Support for protected bike lanes from OMI to Mission Terrace.
 - Missing connection to Mission Terrace from OMI.
 - Confusing intersection at Sagamore St and Orizaba Ave; need protected bike lane to connect to Alemaný.
 - Support for bike lane on Mission over 280 and up the hill.
 - Unclear connection between Mission St bike lane and Alemaný (overpass issue).
- **San Jose Ave:**
 - Desire for bike lanes along San Jose Ave.
 - Connecting Alemaný Blvd, Mission St, San Jose Ave, and Valencia St with bike lanes would be ideal.
- **Hearst Ave:**
 - Not functioning as a slow street; needs more infrastructure to slow traffic.
 - Needs traffic diversion and speed humps.
 - Traffic calming needed from Ridgewood Ave to Baden St.

Excelsior

- **Persia Ave:** Needs traffic calming; cannot support more car volumes and speeds.
- **Mansell St:** Steep, rarely used by cyclists; lacks connectivity.
- **Slow Streets:** Add slow streets.
- **Connections to San Jose Ave:** Poor connections in Excelsior.

Glen Park

- **Monterey Blvd:**
 - Narrow lanes; needs traffic calming.
 - Consider bike facilities as traffic calming measure.
 - Needs separated bike lanes, especially uphill; plenty of width.
- **Bosworth St:**
 - Important for BART and 280 access; heavy car traffic.
 - Create a separated bike lane; better than changing Chenery.

West of Twin Peaks

- **Portola Dr:**
 - From Junipero Serra Blvd to Del Sur Ave: Needs physical protection; cars speed quickly.
- **7th Ave:** Should be 100% protected.

Parkside/Lakeshore

- **Sloat Blvd:** From 35th Ave to 39th Ave: Dangerous traffic and road conditions. Improve alternate bike route at Sloat and Skyline. Do not prioritize Sloat.
- **Connection to Eucalyptus:** Need connection via Rolph Nicol Park.

Bayview/Hunters Point

- **Phelps St to Oakdale St to Mendell St to Galvez St:**
 - Area with many families/kids; should be a slow street area. Driving already <15mph; make it official.
- **3rd St:**
 - High need for a safe bike/roll along 3rd St.
 - Young people already bike on 3rd; plan lacks intuitive alternatives.
- **Connectivity to other neighborhoods:**
 - Poor connectivity in Bayview/Hunters Point; high proportion of kids/teens, potentially dangerous.



Additional Conversations

In addition to the open houses, SFMTA staff engaged in conversation with numerous community members, business owners, and community groups about biking and rolling, taking place through 24 email threads and 5 in person meetings. In the following pages, we outline an illustrative summary of what we heard about some specific locations through these in-person and e-mail exchanges.



SFMTA staff will use the comments to help weigh the trade-offs and refine the draft materials. Note: SFMTA staff carefully read each comment, used AI via Microsoft Copilot to help organize and summarize comments, and then verified accuracy and edited the outputs. Any proposals in the Plan will still go through project-specific outreach to refine the plans and designs of proposed bikeways.

On Commercial Corridors

- Car parking is vital to small business success
- Need for improved communication on construction timelines

North Beach

- **Columbus Wiggle:** Better wiggle NB on Columbus is right on Powell, left on Lombard, right on Mason, left on Chestnut and back onto Columbus past the tracks. When going south, take Columbus and don't get pushed into the tracks.

Chinatown

- **Stockton Tunnel:** Improve pedestrian safety at Stockton Tunnel and light at Pacific and Powell.
- **Grant St, Stockton St:** Add signage that says no bicycles.

Inner Richmond

- **Anza St:** Move bikeshare station from 5th Ave. to Anza St.

Sunset

- People living in the Sunset, especially Chinese-speaking multi-generational households, rely on car travel for daily activities.

Western Addition

- **Oak and Fell Sts (between Scott and Baker):** Improve intersections, add protection, and enhance safety. Vital connection to Panhandle, JFK Promenade, and west side of the city. Already high bike volumes despite current infrastructure limitations.

Downtown/Civic Center/Financial District

- **Market St between Civic Center and Fifth Street Garage:** Improve route

Castro/Upper Market

- **17th St:** Add connections to the Castro via 17th Street. Not currently connected.
- **Market St between Castro St and Noe St:** Add protected bike lane due to all the double parking.

Noe Valley

- **Church St:** Add traffic calming on Church St including on Duncan and 28th St as drivers go fast without stopping for pedestrians.
- **23rd St:** Don't make a bikeway, already has a lot of traffic and speed bumps. Suggest Elizabeth St parallel to 23rd St instead.

Potrero Hill/Dogpatch

- **Illinois St:** From Mariposa St to Cargo St, add a protected, bi-directional bike lane.
- **Mariposa St:**
 - West of 280, implement traffic calming, traffic diverters, and improved pedestrian crossings to calm cut through traffic between 280 and 101.
 - East of 280, implement a road diet and protected bicycle infrastructure to connect to Terry Francois and Illinois St bicycle lanes.
- **23rd St:**
 - Pennsylvania St to Illinois St, implement traffic calming and pedestrian and bicycle infrastructure as it's a key corridor and will connect the Power Station Development.
- **Cesar Chavez St:**
 - East of Potrero Ave between Pennsylvania St and Illinois St and including Illinois & 3rd Intersections, fill protected bicycle lane gap.
- **18th St:**
 - From Illinois St to Connecticut St in the Potrero Hill commercial district, reduce speed to reduce cut through traffic to improve pedestrian safety.
 - From Minnesota St to Pennsylvania St on the southern side of the overpass, add a bi-directional, parking-protected bike lane and shared pedestrian path.

- **Safe School Zones / Route:**
 - Daniel Webster, Starr King, SF International, Mission Bay School
 - Add Live Oak at Jackson Park to the map.
- **17th St:** Quick build changes
 - Missouri St From 16th to 17th St
 - Mississippi St From 16th to 17th
 - 17th St Intersection @ Potrero Ave
 - 17th St From Mississippi to Pennsylvania
- **22nd St:** From Minnesota St to Tennessee St, add permanent Shared Space or Permanent Slow Street / Stop Signs
- **19th St and Tennessee St:** Add stop sign
- **Kansas St:** North of 17th, should be protected prior to neighborway designation; and
- **Utah St:** From 17th St to Potrero St, traffic calming and curb cuts needed at W side of pedestrian bridges over 101 as there are increasing cut-throughs.
- **Vermont St:** From 22nd St to 23rd St, traffic calming and curb cuts needed at west side of pedestrian bridges over 101 as there are increasing cut-throughs .

Lakeshore

- **19th Ave:** At Holloway, improve crossing.
- **Connections to SF State:**
 - Improve connections to Daly City, Balboa Park BART, and Stern Grove
 - Unclear about what's happening with Daly City BART, would bike if better connection.
- **Brotherhood Way:** Improve bike route through underpass

West of Twin Peaks

- **Upland Dr, Northwood Ave, Montecito Ave, Hazelwood Ave, Genessee St, and Hearst Ave:** Add alternative route to Monterey Blvd.
- **Faxon:** Edit route involving curvature of the hill.

Glen Park

- **Chenery St:** Little community consensus over whether or not to include Chenery Street between Diamond and Elk as part of the network.

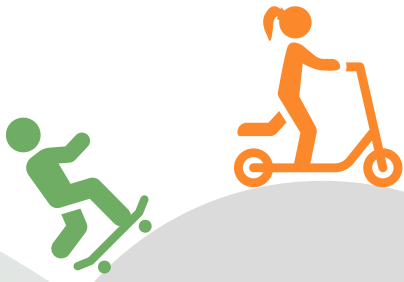
Bernal Heights

- **Junipero Serra Elementary School and Early Education School:** Add bike facilities to support lower income Latinx population.
- **Holly Park Circle:** Add Slow Street or traffic calming.

South of Market

7th St and Folsom: Dangerous mixing zone for right-turning traffic

Appendix N



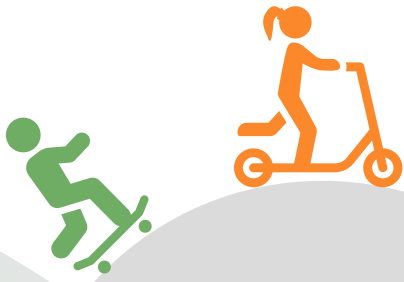
List of Community Organizations engaged during the Biking and Rolling Plan process

As of February 7, 2025 / Alphabetical Order

1. American Indian Cultural District
2. American Industrial Center
3. Barbary Coast Neighborhood Association
4. Bay Area Outreach and Recreation Program
5. Bayview Hill Neighborhood Association
6. Bayview YMCA
7. Bernal Heights Merchant Association
8. Better Housing Policies
9. BMAGIC
10. Bring Your Own Big Wheel
11. Calle 24
12. Castro Farmer's Market
13. Central City SRO
14. Chinatown Community Development Center
15. Chinatown Merchant's Association
16. Chinatown TRIP
17. City College Student Association
18. Citywide CBD Alliance
19. Common Roots
20. CYC – Bayview
21. CYC – Richmond
22. Discover Polk
23. Dogpatch Neighborhood Association
24. Duboce Triangle Neighborhood Association
25. Earth Day SF
26. East Cut Community Benefit District
27. Excelsior Collaborative
28. Excelsior District Improvement Association
29. Family Connections Center
30. Financial District CBD
31. Flynn Elementary School
32. Fort Mason Farmer's Market
33. Glen Park Merchant Association
34. Glen Park Neighborhood Association
35. Golden Gate Restaurant Association
36. Grattan Elementary School
37. Hayes Valley Neighborhood Association
38. KidSafe SF
39. Lighthouse for the Blind

40. Lower Polk CBD
41. Lower Polk Neighbors
42. Mission Bay Citizens' Advisory Council
43. Mission Food Hub
44. Mission Merchants Association
45. Mission YMCA
46. New Mission Terrance Improvement Association
47. NorCal Pedal Gang
48. North Beach Business Association
49. North Beach Neighbors
50. North of Panhandle Neighborhood Association
51. Northern Neighbors
52. OMI Cultural Participation Project
53. Outer Sunset Farmer's Market
54. Outer Sunset Neighbors
55. People of Parkside-Sunset
56. People of Slow Streets
57. Potrero Boosters
58. Richmond Families
59. San Francisco Bicycle Coalition
60. Senior Power
61. SF African American Arts & Cultural District
62. SF Bicycle Advisory Committee
63. Bike Bus
64. SF Council of District Merchants
65. SF Parks Alliance
66. SF State Student Government
67. SF Youth Commission
68. SFMTA Citizens' Advisory Council
69. SFMTA Small Business Working Group
70. Skating on Native Land
71. Small Business Commission
72. SOMCAN
73. Southeast Community Facility Commission
74. Telegraph Hill Dwellers
75. Tenderloin Community School
76. Tenderloin Neighborhood Development Corporation
77. Tenderloin YMCA
78. Transgender District
79. Union Street Merchants
80. University of California, San Francisco
81. We are OMI
82. Youth Mojo

Appendix O



Appendix O • Glossary

Action – An intention set forth in a plan. Public commitment is made to actions through a plan approval. Note an “action” in the Biking and Rolling Plan is not an “action” as defined by the California Environmental Quality Act (CEQA).

All Ages and Abilities – Criteria set forth by the National Association of City Transportation Officials (NACTO) for selecting and implementing bike facilities. It considers contextual factors such as vehicular speeds and volumes, operational uses and observed sources of bicycling stress.

Bicycle asset – equipment, facilities, planned activities, or similar components related to bicycling that add value to the act of bicycling, examples include secure parking, education classes and rebate programs.

Bikeways – Also sometimes referred to as “biking facilities,” the roads, paths, barriers, signage, and other physical infrastructure intentionally installed to facilitate biking and rolling. The entirety of all bikeways together is called the “biking network.”

Biking and Rolling – activity on bicycles, scooters and other small wheel-devices and includes models with electric-assist. See Appendix B for a list of allowable devices.

Community Action Plans (CAPs) – Sections of the plan outlining policy, program and infrastructure priorities for historically underserved communities living in SOMA, Tenderloin, Western Addition, Mission, Excelsior and Bayview Hunters Point, as written by the community partners.

Community Based Transportation Plans (CBTPs) – Community-led planning processes that take a comprehensive approach to transportation planning.

Community partner – Community-based organizations representing an equity priority community contracted to lead engagement and the development of community action plans.

Community readiness – The level which SFMTA has built and maintained community relationships before projects are identified. If or when a project begins, this is assessed through and supported by on-going tailoring of community engagement through informing, consulting, involving, collaborating, and empowering.

Equity Priority Community (EPC) – census tracts with a significant concentration of underserved populations, such as households with low incomes, limited English proficiency and severe rent-burden.

Harm – Marginalization of Black and Brown communities during past planning processes or government action, intentional or not, resulting in ongoing and long-lasting displacement, inequitable access to resources, and/or existing physical or transportation service conditions.

High Injury Network – Corridors with high concentrations of severe traffic injuries and fatalities.

High Network Value – Criteria for prioritizing the phased implementation of projects, such as those identified in the community action plans, network gap closure, community agreement, cost and technical difficulty. Higher network value indicates that a segment project will unlock a high proportion of the bikeway network and/or provide access to a specifically prioritized population identified in the plan.

Low-speed devices – Human-powered, including electric assist, transportation devices that typically travel below the default speed limit of 25mph in San Francisco.

Personal Mobility Devices – light personal vehicles including electric scooters, electric skateboards, shared bicycles, powerchairs and electric bicycles

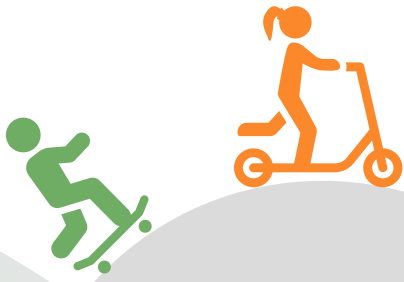
Small Wheeled Devices – A range of vehicles that are small, lightweight and designed to be propelled by a person, such as bicycles, scooters, wheelchairs, skateboards, etc

Plan – through an inclusive public process, an approved proposal for achieving the next generation of goals, policies, programs, and bikeways through a set of actions.

Program – Coordinated agency efforts to organize projects, events, contracts, and partnerships into a comprehensive outcome.

Project – For the purposes of the Biking and Rolling Plan, a project is a funded and engineered agency effort that requires Board approval and/or legislative action.

Appendix P



Roadway Context				All Ages & Abilities Bicycle Facility
TARGET MOTOR SPEED	TARGET MOTOR VEHICLE VOLUME (ADT)	MOTOR VEHICLE LANES	KEY OPERATIONAL CONSIDERATIONS	
Any		Any	Any of the following: high curbside activity, frequent buses, motor vehicle congestion, or turning conflicts	Protected Bicycle Lane
<10 mph	Less relevant	No centerline, or single lane one-way	Pedestrians share the roadway	Shared Street
≤20 mph	≤1,000 – 2,000		<50 motor vehicles per hour in the peak direction at peak hour	Bicycle Boulevard
≤25 mph	≤500 – 1,500	Single lane each direction, or single lane one-way	Low curbside activity, or low congestion pressure	Conventional or Buffered Bicycle Lane, or Protected Bicycle Lane
	≤1,500 – 3,000			Buffered or Protected Bicycle Lane
	≤3,000 – 6,000			Protected Bicycle Lane
	Greater than 6,000			Protected Bicycle Lane
	Any	Multiple lanes per direction		Protected Bicycle Lane

Roadway Context				All Ages & Abilities Bicycle Facility
TARGET MOTOR SPEED	TARGET MOTOR VEHICLE VOLUME (ADT)	MOTOR VEHICLE LANES	KEY OPERATIONAL CONSIDERATIONS	
Greater than 26 mph	≤6,000	Single lane each direction	Low curbside activity, or low congestion pressure	Protected Bicycle Lane, or Reduce Speed
		Multiple lanes per direction		Protected Bicycle Lane, or Reduce to Single Lane & Reduce Speed
	Greater than 6,000	Any	Any	Protected Bicycle Lane
High-speed limited access roadways, natural corridors, or geographic edge conditions with limited conflicts	Any	Any	High pedestrian volume	Bike Path with Separate Walkway or Protected Bicycle Lane
			Low pedestrian volume	Shared-Use Path or Protected Bicycle Lane

Source: NACTO