

Bus Stop Improvement Plan

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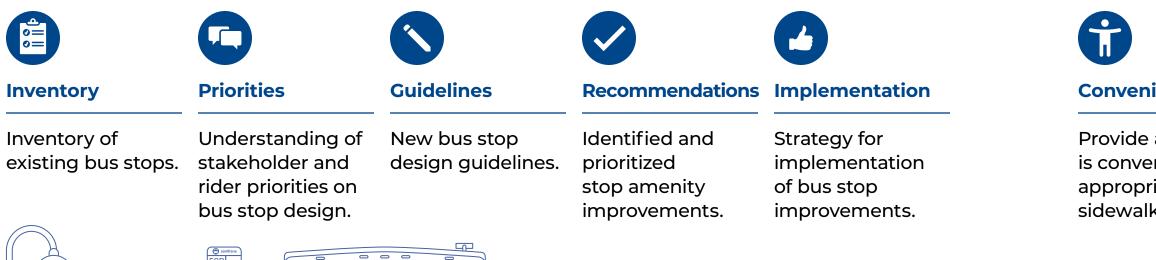
DRAFT EXECUTIVE SUMMARY

March 2024

samīrans

Customer Experience Begins at the Bus Stop

SamTrans is committed to providing an excellent customer experience for our riders, and this begins at the bus stop. The SamTrans Bus Stop Improvement Plan presents a vision for bus stops systemwide, and provides a comprehensive strategy for delivering this vision. Key components of the Plan include:





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This Executive Summary walks through key outcomes from each step in the planning process. Refer to the full report for more details on the content presented here.

SamTrans is committed to providing a comfortable, convenient, and dignified experience for riders at bus stops. SamTrans has set the following goals for every rider's experience when waiting for the bus:

SamTrans' Vision for Bus Stops

	i	0
Convenient	Informative	Comfortable
Provide a stop environment that is convenient to use, featuring appropriate curb access and a sidewalk free from obstructions.	Provide service information to riders at bus stops, including schedules and the ability to access real-time arrival data.	Provide shelter and a place to sit at all-day stops.

Inventory of Existing Bus Stops

As a first step, SamTrans inventoried all of the nearly 1,900 bus stops in operation to document existing characteristics. For more information on existing conditions, see the SamTrans Bus Stop Inventory Dashboard.

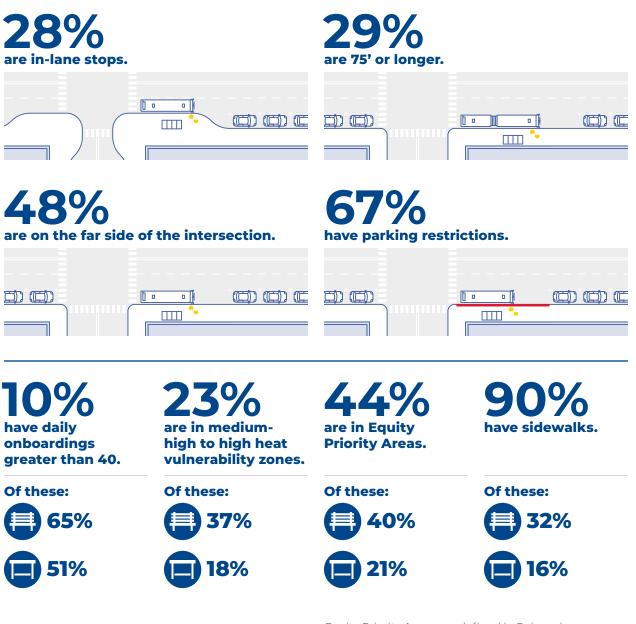
1,87 **Inventoried Bus Stops**

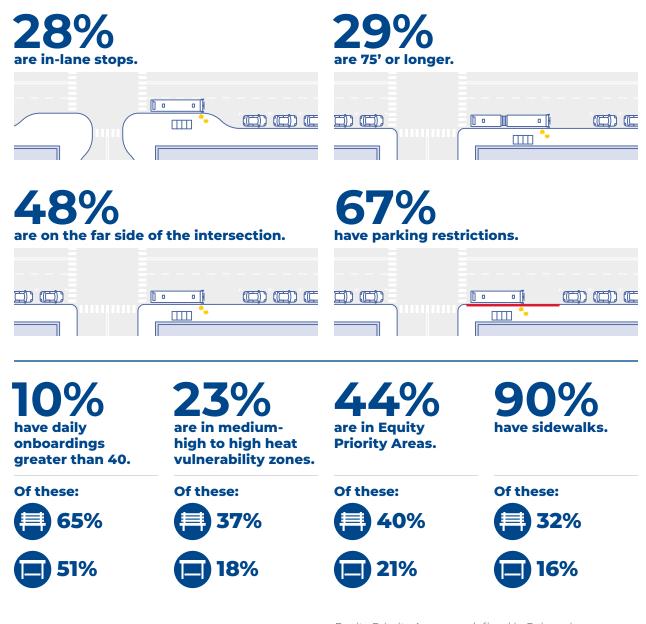
> cities and censusdesignated places, plus unincorporated San Mateo County, have SamTrans bus stops.

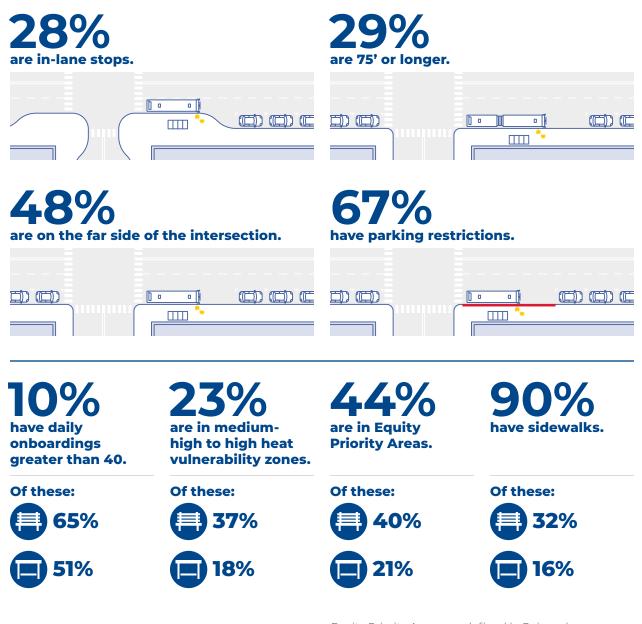
Locations with the most bus stops:

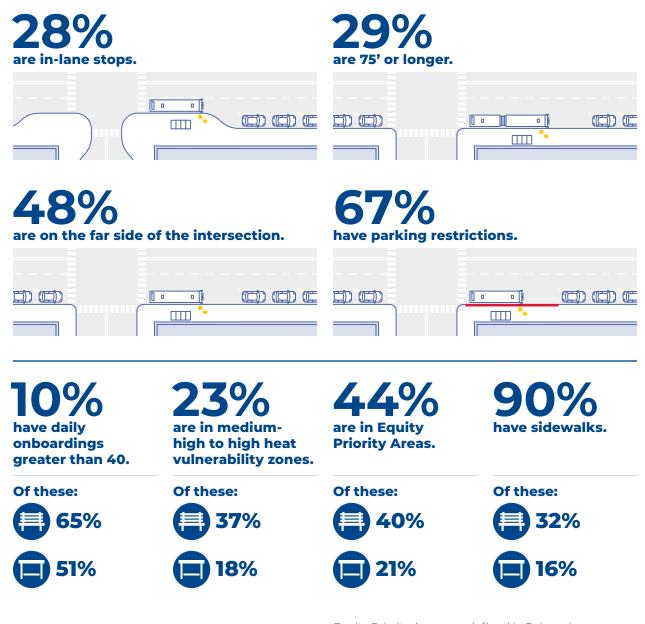
DALY CITY		242
SAN MATEO	191	
SOUTH SAN FRANCISCO	180	
REDWOOD CITY	180	
MENLO PARK		











Stop has seating

Of Our Bus Stops...

Stop has shelter

Equity Priority Areas are defined in Reimagine SamTrans. Heat Vulnerability Zones are defined in the SamTrans Adaptation and Resilience Plan.

Bus Stop Inventory

The following characteristics and contextual factors were inventoried for each bus stop operating in Fall 2022.



- Presence of a bus stop sign and pole
- Presence of real time information display
- Presence of a map or route schedule
- Presence and type of shelter
- Number of benches
- Number of Simme-Seats
- Number of trash receptacles
- Bus stop location and position
- Approximate stop length
- Presence of a bus pad
- Presence of red curb
- On-street parking regulations
- Presence and control type of a crosswalk
- Presence of a sidewalk
- Possible landing pad obstruction
- Presence of curb cuts/ramps at the nearest intersection
- Presence of a driveway less than 75 feet upstream from the bus stop sign

Contextual Factors

- SamTrans ridership
- Census places
- Roadway classification
- Iniurv collisions
- Existing bike facilities
- Daily average observed speeds
- Activity density
- Vulnerability index tracts
- Equity Priority Areas

Feedback on Bus Stop Design

Hearing from our Riders

SamTrans developed a tailored engagement approach to understand rider satisfaction with current amenities, what amenities are most important to them, and how contextual factors like heat, wind, or long waits change their perspective.



The survey was live for six weeks, offered in four languages, and promoted online, on buses, at bus stops, and through the SamTrans ambassador program.

Respondents Told Us Their...

Top Concerns	Top Requests	Location-Specific Needs	Lighting Priorities	Amenity Preferences	Safety Cond
Respondents were most unsatisfied with the lack of shelters, real- time information, and lighting at bus stops.	The top two requested amenities were shelters and real-time arrival information.	Shelters, seating, and real-time information are especially important at locations with less frequent service, where riders may be waiting a longer time for a transit vehicle.	Lighting is most important to riders first at stops that do not have lighting from nearby buildings or businesses, and second where long wait times are expected.	Respondents considered other amenities less important, including additional trash cans, places to charge devices, bike racks, and better system maps.	Safety is at the concerns exp They express while waiting including pro- exposure to he weather, a law and no lighti

TAKE OUR BUS **STOP SURVEY!** SamTrans.com/BusStopSurvey Open through April 30, 2023



Interviewees Told Us Their...

the heart of most expressed by riders. essed challenges ng at bus stops, orolonged o hot and cold lack of seating. nting at stops.



Social media posts to engage riders in the Bus Stop Improvement Plan

Learning from Prior Efforts

SamTrans regularly engages with riders on a variety of service-related topics and regularly receives feedback on stop conditions. It was important to us to respect riders' time and not ask the same question twice. For this reason, rider engagement started with a thorough review of comments received through prior engagement efforts.

Rider Interviews

SamTrans conducted one-on-one listening sessions in English, Spanish, Cantonese, Mandarin, and Tagalog to hear directly from rider groups that are often missing from the conversation: off-peak riders, limited to no-English speakers, older adults and people with disabilities, and parents and caretakers.

ncerns

Reliability Concerns

Bus delays and the lack of reliable real-time information result in unpredictable wait times, and make it harder for riders to plan around disruptions or make alternative plans.

Stop Visibility Concerns

Bus stop visibility is a significant issue for the riders we interviewed. Inadequate signage and markings can make it hard for riders to find the bus stop and poor lighting or improperly placed seating can make it hard for operators to see waiting passengers.

Amenity Preferences

The need for sun, rain. and wind protection made covered shelters at bus stops a consistent priority. Participants near-unanimously cited a need for additional seating at bus stops.

Hearing from Stakeholders Countywide

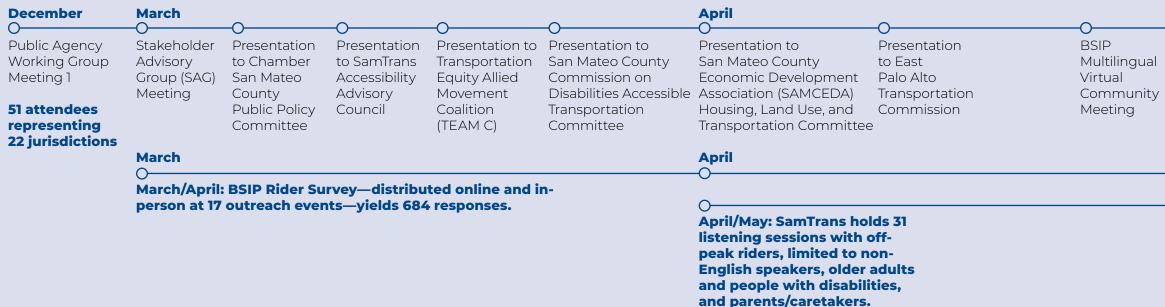
Stakeholders included local jurisdictions across the SamTrans service area, which were convened through regular Public Agency Working Group sessions and a series of presentations to standing stakeholder meetings.



Stakeholder Engagement Timeline



2023



Stakeholders Told Us Their Preferences for...

nprovement SamTrans and local Local jurisdictions need Stakeholders are Stakeholders want clearer and resources jurisdictions can boost clarity on ownership excited to have clearly design guidance on bus	Resources	Collaboration	Ownership	Stop Amenities	Design Guidance	
consolidated in ardized location.collaboration through project-, data-, and cost- sharing opportunities.and maintenance 	nd resources	jurisdictions can boost collaboration through project-, data-, and cost-	clarity on ownership and maintenance responsibilities of bus	excited to have clearly defined amenities by	boarding islands, bus bulbs, and bike lane	

2024

	\sim		May	August	November	October	February	\sim
	Presentation	Presentation	U	Public Agency	City/County	Update for	Public Agency	Presentation
1	to Coastside	to North		Working Group	Association of	SamTrans	Working Group	to City/County
	Transportation	Fair Oaks		Meeting 2	Governments	Board of	Meeting 3	Association of
V	Committee	Community		5	(C/CAG) of San	Directors	5	Governments
-		Council		66 attendees	Mateo County		52 attendees	(C/CAG) of San
				representing	Meeting		representing	Mateo County
				23 jurisdictions	5		20 jurisdictions	Meeting
			May					
			-0					Presentation
								to San Mateo
			-0					County City
								Manager's
								Association

New Bus Stop Design Guidelines

The 2023 SamTrans Bus Stop Design Guidelines provide clear, concise guidance for bus stop amenities, location, position, and access. Highlights of the Guidelines are shown below. The full document is available in Appendix D of the plan and online.

Bus Stop Design Guidelines Highlights

Bus Stop Categories

Category	Definition	Typical SamTrans Service	Percentage of Stops	Category	Minimum Recommended Amenities
Frequent Standard	Stops served by a bus at least four times an hour, for at least 12 hours per weekday Stops served by a bus 1-3	ECR, 120, 130, and 296 plus bus stops that serve multiple local routes Most three-digit routes	20%	Frequent (Includes Transit Centers)	 Bus bulb or bus boarding island to widen the sidewalk if engineering design considerations are met Standard sign and pole Shelter with lighting Real-time information provided via digital signage Service map and schedule
Standard	times per hour, for at least 12 hours per weekday	(100s, 200s)	-570	Standard	 Standard sign and pole Shelter or shade structure and bench/Simme-Seat with lighting
School-Oriented/Other				 Service map and schedule Real-time information provided via digital signage 	
	oriented routes. A bus may come as infrequently as once per day	oriented routes. A bus may come digit routes), rush hour-only as infrequently as once per day routes (FCX), Shuttle service		School-Oriented/Other	 Standard sign and pole Real-time information provided via QR codes that direct riders to a stop-specific webpage

The Guidelines are designed for use by SamTrans staff and our external partners.

Internal Stakeholders

SamTrans agency staff may use the Guidelines when identifying amenity upgrades at an existing stop or providing amenities at a new stop.

External Stakeholders

Local jurisdiction staff, developers, and peer agencies may use the guidelines to understand how to properly design for SamTrans bus stops alongside new private development projects or streetscape improvements.

Transit Amenities by Category

Recommended Bus Stop Amenity Improvements

For each stop across the system, SamTrans compared existing amenities to the minimum recommended amenities outlined in the *Bus Stop Design Guidelines*. These recommendations are based on transit service and geographic characteristics and are subject to change based on engineering feasibility. The recommended stop improvements include:

650 new shade structures.

580 1,2 new benches or

Simme-Seats.

new service maps and schedules.

ps new digital real-time information displays.

160 new bus bulbs or boarding islands. **330 new shelters.** See more on the next page!

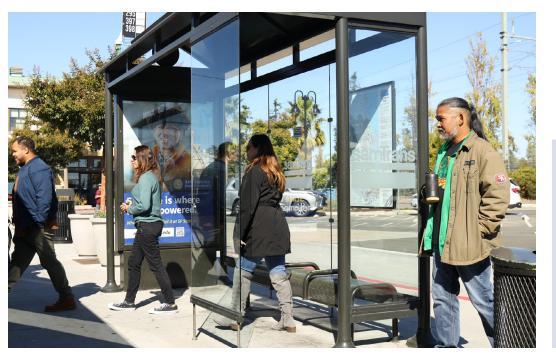


Image from Toler Manufacturing Company



Shade Structure¹

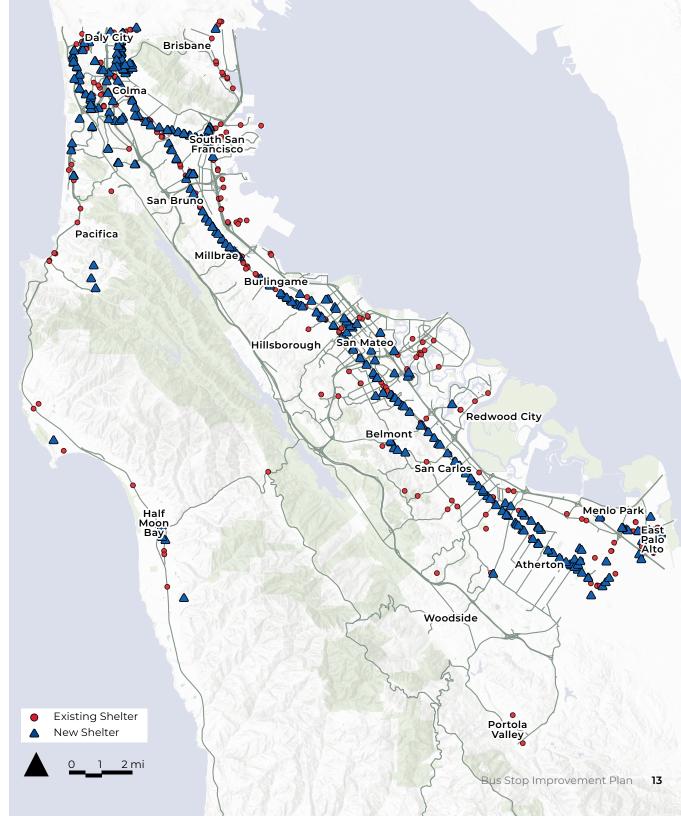
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This is just one example of what a shade structure could look like. It is a monopole structure that provides relief from rain and sun. They are less costly and have a smaller footprint than a full shelter.

()

Simme-Seats These small benches are mounted to the bus stop pole. They are less costly and more flexible

and more flexible to implement than full benches. **3330** New Shelters With Lighting and Seating Across the System— Doubling the Amount of Shelters for Our Riders!



Recommended Improvements by Jurisdiction

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Jurisdiction	Total Stops	Standard Pole and Sign	Shelter with Seating	Shade Structure	Bench	System Map	Route Schedule	Bus Bulb/ Boarding Island	Real-Time (Digital)	Real-Time (QR)
Atherton	24	1	7	4	4	11	12	0	12	24
Belmont	74	6	10	19	15	33	35	9	35	74
Brisbane	17	0	0	4	3	8	12	0	12	17
Burlingame	56	2	18	14	4	39	46	5	46	56
Colma	11	0	6	0	0	7	11	8	11	11
Daly City	241	6	76	83	78	180	203	26	203	241
East Palo Alto	68	3	16	33	30	58	60	5	60	68
Foster City	81	3	0	13	13	14	16	0	16	81
Half Moon Bay	38	1	3	27	25	35	36	0	36	38
Menlo Park	120	6	14	24	20	38	47	6	47	120
Millbrae	16	0	12	0	0	13	16	14	16	16
Pacifica	117	8	9	66	65	77	85	0	86	117
Palo Alto	27	6	5	13	7	27	27	4	27	27
Portola Valley	17	2	0	0	0	0	0	0	0	17
Redwood City	180	13	19	73	54	102	109	16	109	180
San Bruno	105	6	15	50	45	70	68	15	73	105
San Carlos	64	3	11	22	21	36	39	10	39	64
San Francisco	58	8	10	23	23	53	54	1	54	58
San Mateo	190	9	44	68	62	132	137	19	138	190
South San Francisco	180	21	46	48	47	111	123	20	123	180
Unincorporated San Mateo County	171	13	12	70	64	106	98	2	106	171
Woodside	11	l	0	1	1	2	2	0	2	11

Investing in our highest ridership stops is an investment in our County's most vulnerable communities.

Source: SamTrans 2024.

SamTrans is prioritizing our highest ridership stops for near-term investments.

SamTrans riders are over 80% people of color while the County's population as a whole is just 43% people of color. SamTrans riders have an average household income of \$46,500—about a third of the countywide average of \$149,900. This means that investing in bus stops with high ridership is an investment in vulnerable communities. In addition to ridership, we also looked at SamTrans' Equity Priority Areas and SamTrans' Heat Vulnerability Index.



Near-Term Implementation Strategy

SamTrans has identified a set of near-term investments to prioritize in the next three to five years.

Near-Term Investment Distribution Near-term investments will include over... 22 10% Coverage Based bus stops. in near-term capital improvements. 15% Discretionary 170 195 75 new bus bulbs or new digital real-time new shelters. 75% boarding islands. information displays. **Priority-Based** In some instances, these investments will include additional amenities like system maps, route schedules, shade structures and benches, and QR-based real-time information.

¹See Chapter 5 in the plan to learn more about prioritization.

Jurisdiction

Atherton Belmont Brisbane Burlingame Colma Daly City East Palo Alt Foster City Half Moon Ba Menlo Park Millbrae Pacifica Palo Alto Redwood Cit San Bruno San Carlos San Francisc

San Mateo

South San Fr

Unincorpora

Total

Source: SamTrans 2024.

Notes:

Near-Term Investments and Stops by Jurisdiction (Thousands of Dollars)

n	Near-Term Stops	Total Near- Term Costs	FY 2025	FY 2026	FY 2027
	2	\$10	\$0	\$0	\$10
	8	\$1,120	\$O	\$1,120	\$0
	1	\$10	\$O	\$O	\$10
e	4	\$230	\$230	\$O	\$0
	2	\$690	\$690	\$O	\$0
	38	\$7,750	\$O	\$7,750	\$0
lto	8	\$1,770	\$1,770	\$O	\$0
	5	\$120	\$O	\$O	\$120
Вау	5	\$390	\$390	\$O	\$0
< compared with the second sec	2	\$350	\$O	\$O	\$350
	8	\$2,530	\$O	\$O	\$2,530
	25	\$1,660	\$O	\$O	\$1,660
]	\$110	\$110	\$0	\$0
City	14	\$3,110	\$3,110	\$0	\$0
	14	\$3,370	\$O	\$3,370	\$0
	5	\$110	\$O	\$O	\$110
SCO	8	\$1,100	\$O	\$O	\$1,100
	40	\$6,300	\$6,300	\$O	\$0
Francisco	27	\$5,500	\$O	\$O	\$5,500
rated SM County	8	\$1,230	\$O	\$O	\$1,230
	225	\$37,460	\$12,600	\$12,240	\$12,620

Portola Valley and Woodside have no stops identified for near-term improvements and are not included in the table. Spending by fiscal year is subject to change and may extend beyond 2027.

Implementation Approach for SamTrans-funded Improvements

SamTrans is committed to making quick progress on implementing the Bus Stop Improvement Plan, starting with the near-term investments. SamTrans plans to take the lead on each step of implementation with the goal of delivering the near-term improvements within three to five years.

Funding	Design	Permitting	Construction
SamTrans leads with some requests to partner on grant applications.	SamTrans leads with opportunities for feedback/ collaboration along the way.	Local jurisdictions provide support on permitting processes.	SamTrans leads with City inspectors/staff participation.

Staffing Needs

Implementing a large-scale program such as the Bus Stop Improvement Plan requires staffing beyond day-to-day stateof-good-repair projects and minor capital upgrade projects. SamTrans would need to augment existing staff with either:

- $\cdot\,$ Four full-time employees (FTEs) and an engineering on-call
- $\cdot\,$ Seven to ten FTEs if engineering were to be done in-house

Key roles required with either option include a dedicated grant and funding coordinator, one to two bus stop planners, and anywhere from two to eight engineering staff members. Increases in maintenance FTEs may be necessary as well, including up to two Intelligent Transportation Systems (ITS) technicians for real-time signage support.



Longer-Term Investments

Following completion of the near-term investments, SamTrans will revisit the remaining stops and identify and prioritize the next set of investments. Roughly \$100 million of additional investment (in 2023 dollars) will be needed to complete all identified longer-term investments. Local jurisdictions may choose to self-fund and implement improvements at these bus stops sooner through the following mechanisms:

Locally Funded Bus Stop City-Led Streetscape Improvement Programs Projects

Jurisdictions self-fund and implement bus stop amenities through sidewalk and street furniture program.

Bus stop improvements are incorporated into larger streetscape projects.

Developer-Funded Improvements

Bus stop improvements are implemented through Transportation Demand Management (TDM) requirements, grant requirements, or conditions of approval.

Jurisdiction

Atherton Belmont Brisbane Burlingame Colma Daly City East Palo Alto Foster City Half Moon Ba Menlo Park Millbrae Pacifica Palo Alto Portola Valley Redwood Cit San Bruno San Carlos San Francisco San Mateo South San Fr Unincorporat Woodside Total

Source: SamTrans 2024.

Estimated Timeline for SamTrans Funding

n	Long-Term Stops (5+ Years)
	22
	66
	16
	52
	9
	203
to	60
	76
Bay	33
	118
	8
	92
	26
еу	17
ity	166
	91
	59
0	50
	150
rancisco	153
ated San Mateo County	163
	11
	1,641

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