



# **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:



### Inventory

Inventory of

existing bus stops.



#### **Priorities**

Understanding of stakeholder and rider priorities on bus stop design.



#### Guidelines

New bus stop design guidelines.



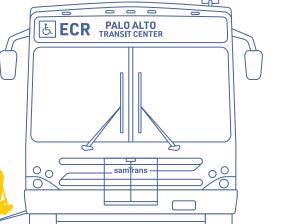
#### **Recommendations Implementation**

Identified and prioritized stop amenity



improvements.

Strategy for implementation of bus stop improvements.





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' Vision for Bus Stops

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:



#### Convenient

Provide a stop environment that is convenient to use, featuring appropriate curb access and a sidewalk free from obstructions.



#### **Informative**

Provide service information to riders at bus stops, including schedules and the ability to access real-time arrival data.



#### Comfortable

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.

**Inventoried Bus Stops** 

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

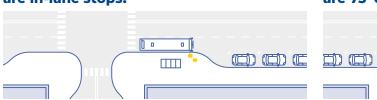
Locations with the most bus stops:

242 DALY CITY SAN MATEO SOUTH SAN FRANCISCO **REDWOOD CITY** 

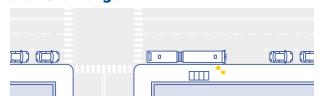


### Of Our Bus Stops...

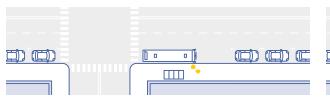
are in-lane stops.



are 75' or longer.

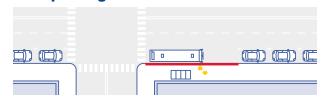


are on the far side of the intersection.



**67**%

have parking restrictions.



10% have daily onboardings

Of these:

65%

51%

Stop has seating

vulnerability zones. greater than 40.

are in mediumhigh to high heat

are in Equity **Priority Areas.**  have sidewalks.

Of these:





**37%** 



Stop has shelter

Of these:

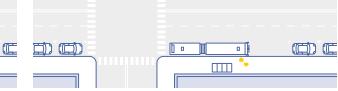
21%

Of these:

**132%** 

· Vulnerability index tracts





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.



#### **Stop Characteristics**

- · 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
- · Equity Priority Areas

MENLO PARK

# 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.

684 **Rider Survey Responses** 

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**

Respondents were most unsatisfied with the lack of shelters, real time information, and lighting at bus stops.

#### **Top Requests**

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

#### **Location-Specific Needs**

for a transit vehicle.

#### **Lighting Priorities**

Liahtina 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.

#### **Amenity Preferences**

Respondents considered other amenities less important, including additional trash cans. places to charge devices, bike racks, and better system maps.

# TAKE OUR BUS STOP SURVEY! Open through April 30, 2023 nTrans is making a plan to improve our bus stops



**DEVELOP A PROCESS WITH** 

LOCAL GOVERNMENTS



# **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.

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

# **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.

### Interviewees Told Us Their...

#### **Safety Concerns**

Safety is at the heart of most concerns expressed by riders. They expressed challenges while waiting at bus stops, including prolonged exposure to hot and cold weather, a lack of seating, and no lighting at stops.

#### **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.



### Stakeholders Told Us Their Preferences for...

#### **Bus Stop Resources**

Bus stop improvement guidance and resources should be consolidated in one standardized location.

#### Collaboration

SamTrans and local jurisdictions can boost collaboration through project-, data-, and costsharing opportunities.

#### **Ownership**

Local jurisdictions need clarity on ownership and maintenance responsibilities of bus stop amenities.

#### **Stop Amenities**

Stakeholders are excited to have clearly defined amenities by bus stop category.

#### **Design Guidance**

Stakeholders want clearer design guidance on bus boarding islands, bus bulbs, and bike lane interface with bus stops.

#### **Stakeholder Engagement Timeline**

December	March	
0	<del>-</del> O	<del>-</del> O
Public Agency	Stakeholder	Presentation
Working Group	Advisory	to Chamber
Meeting 1	Group (SAG)	San Mateo
	Meeting	County
51 attendees		Public Policy
representing		Committee
22 jurisdictions		
	March	

Presentation to Chamber San Mateo County Public Policy

to SamTrans Accessibility Advisory Council

March/April: BSIP Rider Survey—distributed online and in-

person at 17 outreach events—yields 684 responses.

Presentation Transportation Equity Allied Movement Coalition

(TEAM C)

Presentation to Presentation to San Mateo County Commission on Transportation Committee

Presentation to San Mateo County Economic Development Disabilities Accessible Association (SAMCEDA) Housing, Land Use, and Transportation Committee

**April** 

**April** 

Presentation to East Palo Alto Commission

Transportation

BSIP Multilingual Virtual Community Committee Meeting

Presentation to Coastside Transportation

Presentation to North Fair Oaks Community Council

**66 attendees** Mateo County representing 23 iurisdictions

August

Public Agency

Meeting 2

May

**November October** 

Meeting

City/County Update for SamTrans Working Group Association of Board of Governments (C/CAG) of San

Directors 20 iurisdictions

2024

Presentation

to City/County

Association of

Governments

(C/CAG) of San

Mateo County

Meeting

May

**April/May: SamTrans holds 31** listening sessions with offpeak riders, limited to non-**English speakers, older adults** and people with disabilities, and parents/caretakers.

**52 attendees** representing

Public Agency

Working Group

**February** 

Meeting 3

Presentation to San Mateo 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.

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.

#### **Bus Stop Design Guidelines Highlights**

#### **Bus Stop Categories**

Category	Definition	Typical SamTrans Service		
Frequent	Stops served by a bus at least four times an hour, for at least 12 hours per weekday	ECR, 120, 130, and 296 plus bus stops that serve multiple local routes	20%	
Standard	Stops served by a bus 1-3 times per hour, for at least 12 hours per weekday	Most three-digit routes (100s, 200s)	45%	
School-Oriented/Other	Stops only served by school- oriented routes. A bus may come as infrequently as once per day	School-oriented routes (two- digit routes), rush hour-only routes (FCX), Shuttle service	35%	

#### **Transit Amenities by Category**

Category	Minimum Recommended Amenities
Frequent (Includes Transit Centers)	<ul> <li>Bus bulb or bus boarding island to widen the sidewalk if engineering design considerations are met</li> <li>Standard sign and pole</li> <li>Shelter with lighting</li> <li>Real-time information provided via digital signage</li> <li>Service map and schedule</li> </ul>
Standard	<ul> <li>Standard sign and pole</li> <li>Shelter or shade structure and bench/Simme-Seat with lighting</li> <li>Service map and schedule</li> <li>Real-time information provided via digital signage</li> </ul>
School-Oriented/Other	<ul> <li>Standard sign and pole</li> <li>Real-time information provided via QR codes that direct riders to a stop-specific webpage</li> </ul>

# 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
new benches or Simme-Seats.

1,200 new service ma and schedules.

1,200
new digital real-time information displays.

160 new bus bulbs or boarding islands.

Shade Structure<sup>1</sup>

330
new shelters. See more
on the next page!

330

**New Shelters With** 

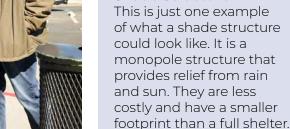
**Lighting and Seating** 

**Across the System—** 

**Doubling the Amount of** 

**Shelters for Our Riders!** 









#### **Simme-Seats**

These small benches are mounted to the bus stop pole.
They are less costly and more flexible to implement than full benches.

Image from Toler Manufacturing Company

Half Moon Bay Woodside 280 Existing Shelter New Shelter Valley • Bus Stop Improvement Plan 13

#### **Recommended Improvements by Jurisdiction**

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	1	0	1	1	2	2	0	2	11
		•								

Source: SamTrans 2024.

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

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

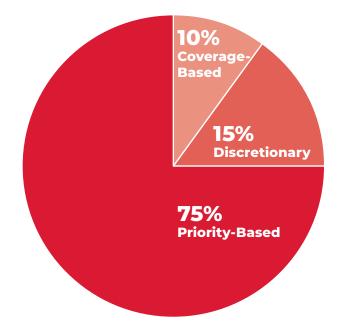
SamTrans riders are over 80% people of color while the County's population as a whole is just 43% people of color. SamTrans riders have an average household income of \$46,500—about a third of the countywide average of \$149,900. This means that investing in bus stops with high ridership is an investment 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...

**221** bus stops.

\$50<sub>M</sub> in near-term capital improvements.

170 new shelters.

75
new bus bulbs or boarding islands.

new digital real-time information displays.

In some instances, these investments will include additional amenities like system maps, route schedules, shade structures and benches, and QR-based real-time information.

<sup>1</sup>See Chapter 5 in the plan to learn more about prioritization.

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

Jurisdiction	Near-Term Stops	Total Near- Term Costs	FY 2025	FY 2026	FY 2027
Atherton	2	\$10	\$0	\$0	\$10
Belmont	8	\$1,120	\$0	\$1,120	\$0
Brisbane	1	\$10	\$0	\$0	\$10
Burlingame	4	\$230	\$230	\$0	\$0
Colma	2	\$690	\$690	\$0	\$0
Daly City	38	\$7,750	\$0	\$7,750	\$0
East Palo Alto	8	\$1,770	\$1,770	\$0	\$0
Foster City	5	\$120	\$0	\$0	\$120
Half Moon Bay	5	\$390	\$390	\$0	\$0
Menlo Park	2	\$350	\$0	\$0	\$350
Millbrae	8	\$2,530	\$0	\$0	\$2,530
Pacifica	25	\$1,660	\$0	\$0	\$1,660
Palo Alto	1	\$110	\$110	\$0	\$0
Redwood City	14	\$3,110	\$3,110	\$0	\$0
San Bruno	14	\$3,370	\$0	\$3,370	\$0
San Carlos	5	\$110	\$0	\$0	\$110
San Francisco	8	\$1,100	\$0	\$0	\$1,100
San Mateo	40	\$6,300	\$6,300	\$0	\$0
South San Francisco	27	\$5,500	\$0	\$0	\$5,500
Unincorporated SM County	8	\$1,230	\$0	\$0	\$1,230
Total	225	\$37,460	\$12,600	\$12,240	\$12,620

Source: SamTrans 2024.

#### Notes:

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.

**16** SamTrans

# 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**

SamTrans leads with some requests to partner on grant applications.

### Design

SamTrans leads with opportunities for feedback/ collaboration along the way.

# **Permitting**

Local jurisdictions provide support on permitting processes.

### Construction

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:

- · Four full-time employees (FTEs) and an engineering on-call
- · 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.

#### **Estimated Timeline for SamTrans Funding**

Jurisdiction	Long-Term Stops (5+ Years)
Atherton	22
Belmont	66
Brisbane	16
Burlingame	52
Colma	9
Daly City	203
East Palo Alto	60
Foster City	76
Half Moon Bay	33
Menlo Park	118
Millbrae	8
Pacifica	92
Palo Alto	26
Portola Valley	17
Redwood City	166
San Bruno	91
San Carlos	59
San Francisco	50
San Mateo	150
South San Francisco	153
Unincorporated San Mateo County	163
Woodside	11
Total	1,641
6	

Source: SamTrans 2024.

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