

Muni Equity Working Group

September 19, 2024

Welcome!

Grab some food and drink. The meeting will start at 5:30 p.m.





Time	Item
5:30 p.m.	Welcome
5:35 p.m.	Update on fall service changes
5:40 p.m.	Guest speaker: Diana Hammons, SFMTA Fare Programs
6:00 p.m.	Break
6:10 p.m.	Recap of service decision-making & metrics
6:20 p.m.	Service scenario exercise
6:55 p.m.	Closing and planning next meeting
7:00 p.m.	Meeting adjourns





Update on Fall Service Changes

Fall Service Change Update

- August 17th Implemented bus service changes to address school demand
- September 28th Implementing rail service changes including start of L Taraval rail service







SFMTA Fare Programs



Service Scenario Exercise



Recap of Current Decision-Making and Evaluation Process

Muni Service Decision-Making Criteria

- Resource neutral changes
- Neighborhoods identified by the Muni Service Equity Strategy
- Ridership demand (crowding) and frequency
- Minimum policy frequencies
- Access for people with disabilities and seniors
- Support economic recovery



Muni service criteria based on agency values

Developing Service Plans

Service Needs Analysis

- Service Standards & Equity
 - Is there service that is not meeting our standards?
- Ridership & Performance Analysis
 - Where is the most crowding and what routes are not meeting their schedule?
- Feedback
 - What are we hearing from customers, operators and other front-line staff?
- Operator & Fleet Availability
 - How many operators and vehicles do we have available for service?

Service Plan Details

- Frequency
 - How often does the bus run?
- Time Span
 - From when to when does the service run?
- Route

Decision Making Criteria

- On what streets does the bus run?
- Bus Stops
 - Where are the stops and what type?
- Vehicle Type
 - What mode should the routes run on rail, electric trolley, motor coach, streetcar, etc.?



Working Group Support Needed

Collaborate in development of performance metrics

- Define policy to prioritize implementing service needs
- Review reporting tools and provide feedback
- Inform your communities of this process and bring feedback



Service Standards & Performance Metrics

Service Standards

establish baseline for service

- Policy headways
- Service coverage
- Transit amenities

Performance Metrics

establish threshold for service quality

- Service delivery
- Crowding
- Headway adherence/on-time performance

Service Standards

Baseline for Service

Policy Headways	 How frequent should the service come?
Service Coverage	 What is the minimum amount of area of San Francisco we should serve?
Transit Stop Amenities	 What are the basic needs at each stop?



Performance Standards thresholds for service quality



scheduled trips are started and completed.

on high-ridership segments and times.

How well buses are spaced apart.





Neighborhood Exercise Inner Mission

Inner Mission Exercise

Scenario:

SFMTA is being faced with a 10% service cut to service. Service change decisions should be rooted in data which can include ridership, performance, productivity and demographic data.

Evaluation Tools:

- Neighborhood Map shows which routes service the neighborhood
- Web Dashboard displays different data at the route level with the ability to weigh them differently or the same
- Route Information Table provides at-a-glance information about the routes serving the Inner Mission including ridership, performance, productivity and resources



Inner Mission Exercise

- **Exercise:** Break out into three groups and create an evaluation framework using the evaluation tools.
- Time:
 - 25 minutes to work with group
 - 10 minutes for report back
- Task:
 - Evaluate Muni service in the Inner Mission neighborhood and develop an evaluation framework to identify service cuts.

Report Back:

- What data did you include in your evaluation framework?
- Were they all weighed the same?
- Was there other data you thought should be included?
- What routes were identified for potential service cuts and why?





Next Meeting Discussion Items

Next Meeting

Date: Thursday, November 21 5:30 – 7 p.m. Location: 1 South Van Ness, 7th Floor







Frequency

Higher Frequency = More \$\$\$

- **Headways** describe how frequently a bus arrives at a stop, *i.e. headways of 10 mins = bus arrives every 10 mins*
- Set based on service standards and ridership demand
- Can vary by time of day, day of week, and route segment





Time Span

- Time Span describes the time the service starts and ends on a given service day
- Spans are **consistent** across service day types
- Typically a service day is 18 hours and is covered by two shifts of operators
- Service can be covered with one shift if the span is less than 8 hours



Travel Time

EXAMPLE: Cost to Provide 10-Minute Bus Frequency, 6 AM – 12 AM, daily

	Travel Time	Buses Required	Annual Cost
Travel time and cost increase together	30 minutes		\$4 million
	45		\$6 million
	60		\$8 million
	75		\$10 million

Assumes operating cost of \$200/hour per vehicle for example purposes only. Actual costs vary by mode.

Factors that influence travel time include route design and congestion

Route Design – Impacts to Time

Access to Destinations vs. Direct Routes



- Shorter routes take fewer vehicles to run at higher frequencies
- Direct routes mean fewer opportunities for it to get delayed



 Fewer stops means faster service and fewer opportunities for the bus to be delayed at stops





Unreliable service (bunching and gapping), lack of traffic signal priority or transit only lanes, slow speeds

Roundtrip Travel Time: 60 mins 6 Coaches for 10 mins service

Traffic signal priority and transit only lanes, more reliable service, faster speeds

Time Savings of 10 mins Roundtrip Travel Time: 50 mins 5 Coaches for 10 mins service (~1 million/year)



Policy Headways

Daytime Service – varies based on service type

Service Category	Typical Frequency
Muni Metro/Rapid	10 to 12 minutes or less & skip stop service
Frequent	10 minutes or less
Grid	12 to 30 minutes
Connector	30 minutes
Specialized/Historic	Based on demand

Owl Service – 12am-5am service

Service Category	Typical Frequency
Owl	15 to 30 minutes



Service Standard

Service Coverage

Daytime Service

 All residential areas within ¼ mile walking distance (or 5 min) of a Muni stop

Owl Service

 All residential areas within ½ mile walking distance (or 10 min) of an Owl stop





Transit Stop Amenities

All Stops



- Stop markings and flags
- Transit shelters (priority at stops with 125+ boardings)
- System maps
- Next Bus displays and push-totalk

Subway Muni Metro stations



- Elevators and escalators
- Digital displays
- Automated voice information systems

Performance Metric

Service Delivery Scheduled Service Filled

M

SFMTA





Performance Metric

Service Delivery Scheduled Hours Delivered

Crowding

4.5 sq ft (bus)

3.7 sq ft (rail)

3.0 sq ft (bus)

2.7 sq ft (rail)

1.5 sq ft (bus)

1.8 sq ft (rail)

- SFMTA has three different thresholds for capacity standards based on number of seats plus standing space for passengers (in square feet)
- Standing space varies by vehicle type
- Capacity thresholds balance comfort and efficiently carrying people

Example: 40 ft Motor Coach Planning Capacity 44 Per standing passenger: Total **Crowding Capacity** 51 Per standing passenger: Total Crush Capacity Per standing passenger: Total

Crowding

Measure: % of trips over "crowding" capacity Target: Less than 10% of trips crowded in one hour Measures the number of trips with passenger loads over the crowding capacity for at least 5% of stops.

- Track total percent of trips in hourly increments that are crowded.
- Routes with 10% of more of trips crowded are "most crowded" routes.

Example of Crowded Trip = 25% (3 of 12) of the stops at "crowding" capacity

Performance Metric

Route Performance Headway Adherence

Measure: % of evenly spaced arrivals Target: More than 86% of arrivals evenly spaced Measures the number of times a vehicle arrives evenly spaced (gap is less than 5 mins above scheduled headway) at stops along the route.

Performance Metric

Route Performance Schedule Adherence

Measure: % of timepoints on time Target: 85% of arrivals on time

Measures the number of times a vehicle meets the scheduled timed arrival (up to 1 minute early and four minutes late).

