



Muni Forward Update and Transit Quick-Build Overview

SFMTA Board





February 18, 2020

Congestion increases operating costs

As congestion increases in areas where transit does not have traffic priority measures, transit service becomes slower and more expensive to provide.

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

Travel time and cost increase together

Travel Time (Minutes)	Buses Required	Annual Cost
30		\$3.9 million
45		\$5.9 million
60		\$7.9 million
75		\$9.9 million

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

The solution: Muni Forward



- **Improved reliability:** Over 60 miles of new reliability improvements, such as red transit lanes, bus bulbs and traffic signals that stay green for transit
- **Rapid Network:** More Rapid lines and expanded frequency
- **More service:** Multiple service increases and new connections since 2015
- **Brand new fleet:** All-new bus and rail vehicles
- **Equity:** A focus on improving service in Equity Strategy neighborhoods

Muni Forward Results

Ridership increased 14% on Rapid bus from 2016 to 2018

- 8 Bayshore corridor: +12%
- Mission/Van Ness corridor: +9%
- Geary corridor: +8%
- 19th Ave corridor: +19%

Time savings of 10% or more

- Church Street: 15%
- 5R Fulton Rapid: 9-12%
- Mission: 13%
- 16th Street quick-build phase: 10%
- Potrero: 20%
- Two-Way Haight: Over 20%
- Sansome: Over 20%

Sales tax revenue increases

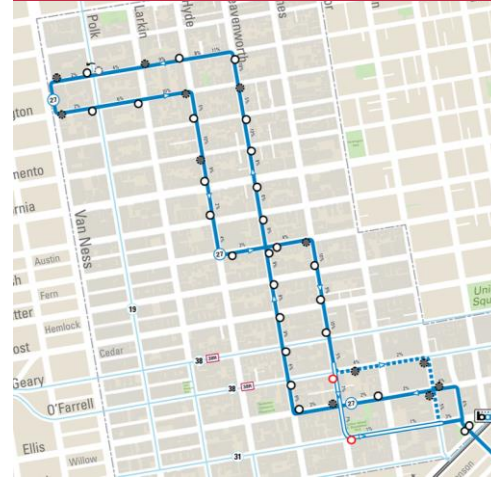
- Mission, Taraval (outperformed city)

Projects completed 2019/2020

N Judah – Irving Street Muni Forward



27 Bryant quick-build & reroute



1 California: Laurel Village



3rd Street (SoMa) quick-build



West Portal pilot



San Bruno Ave. Improvement Project

Construction Underway

Geary Rapid Project



16th Street Improvement Project



Taraval Transit Improvement Project



Haight Street



Starting this year

19th Avenue (28, 28R)

4th Street and Lower
Stockton Street red transit
lanes (8, 30, 45)

Lombard Safety Project



6-month look-ahead for SFMTA Board review

- Delay Hot Spots and Quick-Build proposals (today!)
- J Church quick-build improvements
- California safety project
- 5 Fulton (Inner Richmond)
- 30 Stockton service extension to Presidio
- 22 Fillmore extension to Mission Bay and new Dogpatch service to replace 22 Fillmore



Outreach Starting in the Next 2 Years

- Muni Forward corridors

- 14 Mission: Downtown
- 8 Bayshore: Vis. Valley
- 29 Sunset
- K Ingleside – Ocean Ave.
- 1 California
- N Judah – Judah St.
- M Oceanview



- Muni Metro service re-envisioning

- Hot Spot improvements

The Future of Muni Forward

The next five years

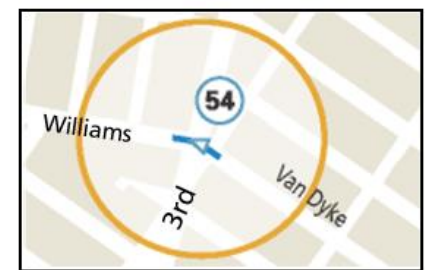
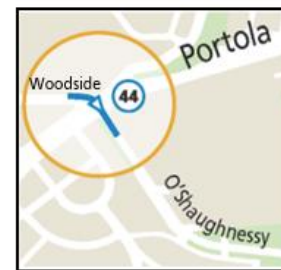
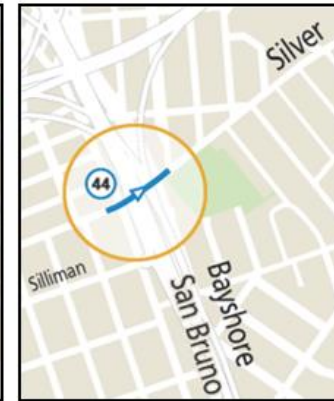
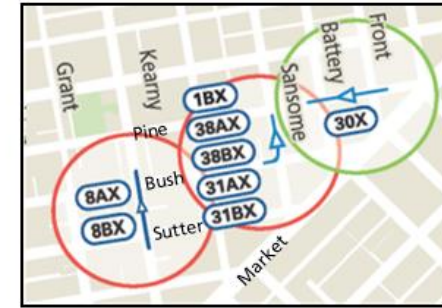
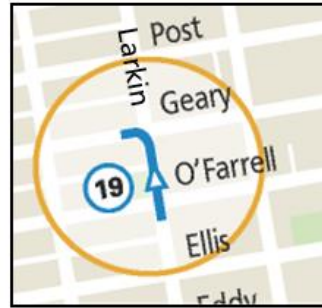
- Expand use of Quick-Build approaches for spot improvements and corridors
- Implement Delay Hot Spot program to complement corridor-based approach
- Operationalize the Equity Strategy with improved service on Equity Strategy lines
- Complete outreach on remaining Rapid projects from Transit Effectiveness Project
- Launch Rapid service on more lines
- Add more new trains to allow expanded Muni Metro service
- Begin transformation of Muni Metro into a true Metro system, with 3-car trains

Beyond - A vision for the Rapid Network

- Continued improvements on the Rapid Network to achieve a vision of Rapid Network service that travels between stops with *no needless delay*
- Rapid service should provide a “surface subway” experience that allows people to get where they need to go in San Francisco with ease

Delay Hot Spots

- We mapped Muni's 10 slowest segments
- Spot improvements can complement a corridor-based approach to reducing delay
- Next step: Implement plans to speed up Muni at initial locations, using turn pockets, queue jumps, signal timing changes, etc.



Transit Quick-Build Program

Consistent with Vision Zero, limited palette of reversible transit reliability and safety measures implemented iteratively

- Transit improvements complete months or years sooner than today
- Public feedback and adjustments based on real-world observations
- We already quick-build after SFMTA Board approval, but this would quicken approval and deliver benefits sooner



Transit Quick-Build Benefits

- Quicker safety and reliability improvements
- Improvements are reversible/adjustable, such as:
 - Turn pockets
 - Stop optimization or consolidation
 - Stop safety upgrades
 - Queue jumps
- Can complement larger capital projects to get benefits on the ground faster



Quick-Build Elements

- Queue jumps
- Minor route adjustments
- Turn restrictions
- Right or left turn pockets
- Stop control changes
- Signal adjustments
- Daylighting
- Stop safety upgrades
- Lane reductions (road diets)
- Advance limit lines
- Delineators
- Certain parking regulation adjustments
- Stop optimization
- Stop consolidation (if stops are on same block or within 200', **and** within stop spacing policy)

SFMTA Board Action

- On defined corridors, delegate authority to City Traffic Engineer to establish tow-away zones and make bus zone modifications, e.g. to enhance safety at stops, optimize or lengthen stops, or establish turn pockets

Accountability and Transparency

- Public Hearing required prior to parking and traffic modifications
- Clear requirements for project evaluation and stakeholder input
- SFMTA Board still legislates prior to major construction activity
- Return to SFMTA Board annually with update on completed and planned Quick-build projects



Defined Set of Projects

- Potential locations
 - Top 10 delay hot spots
 - Muni Forward upcoming corridors
 - J Church
 - K Ingleside
 - M Oceanview
 - N Judah
 - 29 Sunset
 - 22 Fillmore (Fillmore Street)
 - 1 California Rapid Project
 - 5 Fulton (Inner Richmond)
- SFMTA Board could approve additional locations through future resolutions

Next Steps

- SFMTA Board review of quick-build program (today)
- Develop concepts and begin outreach on projects to improve Delay Hot Spots in coming months
- Start outreach on priority Muni Forward corridor quick-build projects in coming months
- Return to SFMTA Board with updates every quarter on Muni Forward program