

SFMTA Rail Capacity Strategy

March 15, 2016

SFCTA Plans and Programs Committee

Presentation Overview

- Rail Capacity Strategy
 - Purpose & Need
 - Scope
- Methodology
- System-wide Investments
- Near-Term Investments
- Workshops & Outreach
- Medium/Long-Term Investments
- Next Steps & Discussion





Rail Capacity Strategy Deliverables

- Prioritized over next two CIP cycles (0-10 year)
 - Specific projects (scope, schedule, budget) that leverage SOGR opportunities and can be added to CIP
- Prioritized Mid & Long Term (10-20+ year)
 Capacity Improvement and Expansion Corridor Concepts
 - Order of Magnitude/Unit Cost Based Cost Estimates

Methodology

Assess

- Identify capacity constraints of existing system
- Quantify capacity shortfall at most crowded points

Develop

- Brainstorm potential capacity enhancing solutions
- Develop concept descriptions

Screen

- Screen concepts for high level feasibility
- Group concepts into tiers for further analysis



System-wide Investments



Vetag switches/crossovers



Terminal/Tail track



Station/Platform Enhancement



Switches/crossovers



Transit "Red Carpet"/ Raised Trackway



Near-term Investments

NAME / PROJECT DESCRIPTION	BENEFITS	TIMELINE	COST
 West Portal Conflict Reduction: Restrict conflicting turn movements Replace magnetized rail segments 	Improved ReliabilityImproved Travel Time	<3 Years	\$1.5m (Pilot only)
Muni Metro Extension Turnback Track: Construct pocket track east of Harrison Street	Improve Passenger ComfortImprove ReliabilityImprove Travel Time	4–5 Years	\$8.5m
 Muni Metro Extension Surface Train Control System: Upgrade existing Transit Signal Priority along Embarcadero from Ferry Portal to 4th and King and south along 3rd Street to 16th Street 	 Improved Passenger Comfort Improved Reliability Improved Travel Time 	3–5 Years	\$10.5m
 Church & Duboce Portal Conflict Reduction: Analyze vehicle or turn prohibition and improved pedestrian and bicycle circulation 	Improved ReliabilityImproved Travel Time	2–5 Years	\$0.5m (Planning only)



Systemwide & Near-term Investments

RAIL CAPACITY STRATEGY

- West Portal Conflict Reduction
- Muni Metro Extension Turnback Track
- Muni Metro Extension Transit Signal Enhancements/Embarcadero Tramways
- Church and Duboce Portal Conflict Reduction

\$20M

MUNI FORWARD

- 22 Filmore: 16th St Transit Priority Project
- 14 Mission: Downtown Mission Transit Priority Project
- L Taraval: Transit and Streetscape Enhancements
- See Muni Forward Implementation Plan for additional projects \$225M

MAJOR CORRIDORS

- Van Ness Bus Rapid Transit
- Geary Bus Rapid Transit
- Better Market Street
- M-Line/19th Avenue Core Capacity
 Project

\$475M

SPOT IMPROVEMENTS

- Transit Spot Improvements & Red Lanes
- Overhead Catenary System

\$115M

Funding Gap: \$144M

Estimated Revenue: \$691M



FY 2022-2026



FY 2017-2021

Total Need: \$835M



Existing SFMTA Rail Network

Caltrain

BART

Workshops & Online Feedback

More Frequently

Recommended

Concept



Less Frequently Recommended

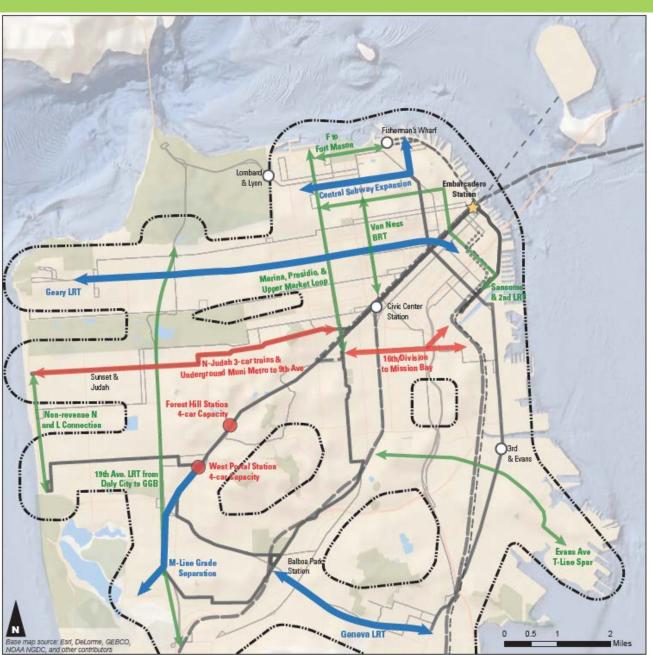
Concept





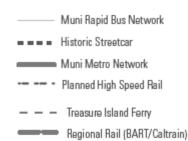


Long-Term Investments





Current and Planned Transit System

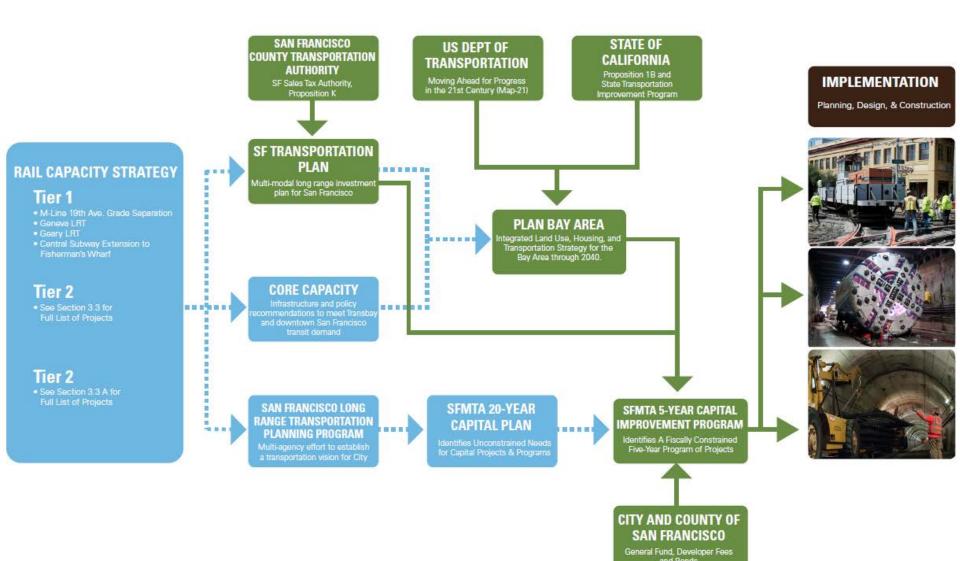


Planned Regional Rail



Long-Term Implementation Roadmap







Questions

