

SFMTA Rail Capacity Strategy

April 21, 2015 SFCTA Plans & Programs Committee



Presentation Overview

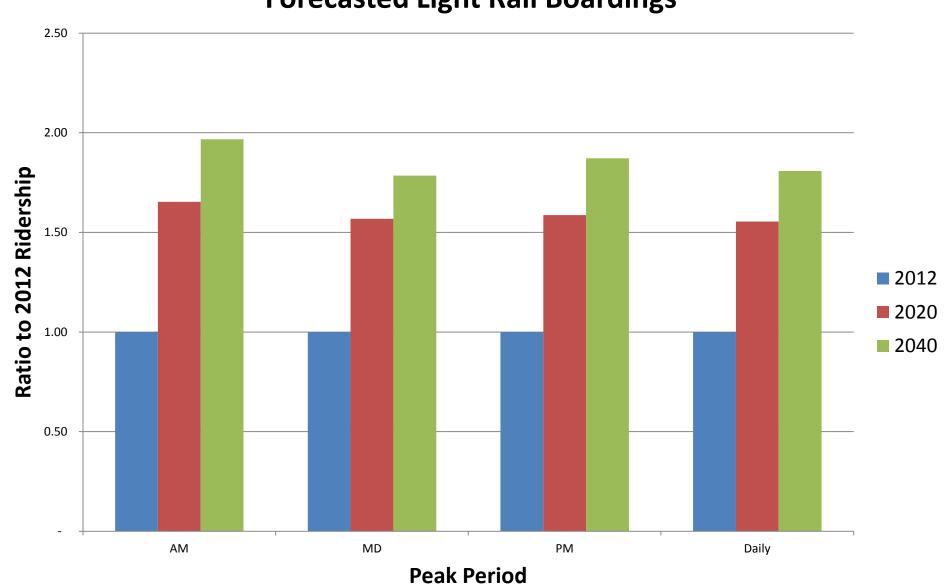
- Rail Capacity Strategy
 - Purpose & Need
 - Scope
- Rail Capacity Technical Panel
- Near-Term Investments
- Workshops & Outreach
- Medium/Long-Term Investments
- Next Steps & Discussion





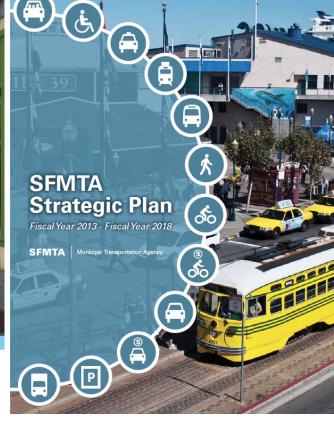


Forecasted Light Rail Boardings









Adopted on May 20, 2014









TRANSIT EFFECTIVENESS PROJECT DRAFT ENVIRONMENTAL IMPACT REPORT

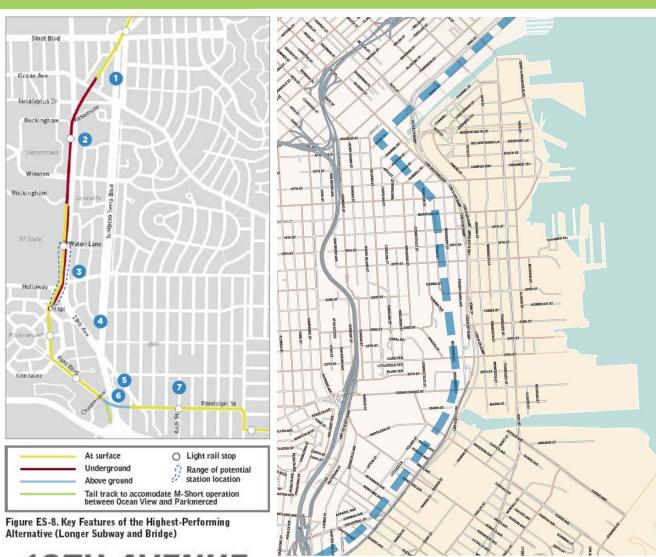
SFMTA

Transportation Agency

MUNIFORWARD











Waterfront Transportation Assessment

T-Third Phase 3



Rail Capacity Strategy Deliverables

- Prioritized over next two CIP cycles (0-10 year)
 - Conceptual Engineering (5%) for Highest Priority Near
 Term Projects
 - 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

Relationship to Regional efforts

SFMTA Rail Capacity Strategy



MTC Core Capacity Study



Sustainable Communities Strategy



Existing Constraints Major Themes

	-
	Vehicles (fleet size, reliability)
	ATCS Equipment (counters, blocks, sensors, signals, etc.)
	Station/Stop Spacing
Infrastructure	System Flexibility (crossovers, loops, wyes, switches)
	Facilities (vehicle storage & Maintenance)
	Station/Terminal/Turnaround Car Capacity
	Overhead (capacity and resiliency)
	Dwell Times
	Dwell Times Subway Intrusion
Operations	
Operations	Subway Intrusion
Operations	Subway Intrusion ATCS at Portals and Non-Communicating Trains
Operations	Subway Intrusion ATCS at Portals and Non-Communicating Trains Modal Conflicts Transit Signal Priority/Traffic Control/At-Grade Crossings
Operations Human Resources	Subway Intrusion ATCS at Portals and Non-Communicating Trains Modal Conflicts



Top Priority 1-5 year Investments

Capacity Enhancement	Project Benefit
West Portal Conflict Reduction	Reduce conflicts and associated delay at one of the busiest LRV intersections in the Muni system
Muni Metro Extension (MMX) Pocket	Reduces Embarcadero turn-back bottleneck following opening of Central Subway.
MMX Transit Signal and Train Control/Tramway Enhancement	Reduce travel time between Folsom & 4 th & King stations. Investigate Train Control System to allow for reverse running.
Church & Duboce Portal Conflict Reduction	Reduce conflicts and associated delay at Church & Duboce intersection

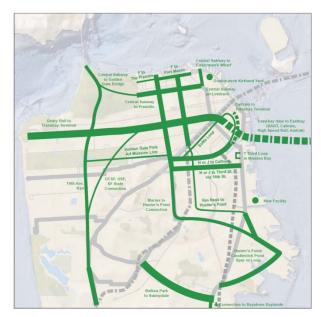








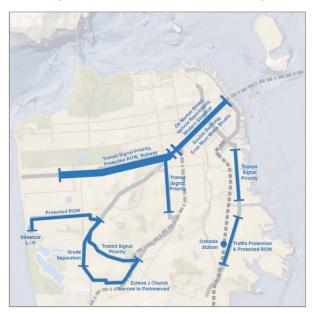
Bottlenecks



System Expansion



System Resiliency



System Enhancement



Next Steps

Deliverable	Date
Identify Mid-Term Prioritized Investments	March 2015
Scope and Order of Magnitude Cost Estimates	April 2015
Public Draft Rail Capacity Strategy	June 2015





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