

METROPOLITAN TRANSPORTATION COMMISSION

Agenda Item 5a
Bay Area Metro Center
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Memorandum

TO: Planning Committee

FR: Executive Director

RE: Core Capacity Transit Study

DATE: June 3, 2016

W.I. 1519

Background

The Core Capacity Transit Study (CCTS) is an ongoing, multi-agency effort to evaluate and prioritize short-, medium-, and long-term transit investments and strategies to address existing and forecasted capacity constraints serving the San Francisco central business district, or Core. The investment and policy priorities of the study will be advanced for further consideration in Plan Bay Area 2040. MTC is the lead agency on the study, working in close partnership with Alameda-Contra Costa Transit District (AC Transit), San Francisco Bay Area Rapid Transit District (BART), Caltrain, San Francisco County Transportation Authority, San Francisco Municipal Transportation Agency, and the San Francisco Bay Area Water Emergency Transportation Authority (WETA).

The CCTS Study Area includes two primary transit corridors: the Transbay Corridor and the San Francisco Metro Corridor. Today, staff will focus on CCTS progress in analyzing existing and future conditions for the Transbay Corridor.

Transbay Corridor Existing and Future Conditions

Over the past five years, travel through the Transbay Corridor has experienced significant growth, placing unprecedented demand on the transit network. Between 2010 and 2015, trips on the three main transit providers, AC Transit, BART, and WETA, have grown 42%, or about 8,600 new peak-hour transit riders. In 2015, transit travel in the corridor's AM peak hour reached 105% of its intended capacity.

Transit operators have a number of projects in development that will help to address capacity shortfalls over the next 5-10 years, and it is critical that these "prerequisite" projects be supported and advanced. The most prominent of them is BART's new train control system, which will enable it to run trains closer together through the Transbay Tube. Effective Bay Bridge management is also key to managing capacity, since without significant changes in bridge mode share or vehicle occupancy, nearly all future growth will need to be met by transit.

Today, passengers are experiencing crowding, diminished reliability, and limited travel flexibility in the corridor. The transportation system struggles to withstand service disruptions, both man-made and natural. Even with the implementation of the set of prerequisite projects, demand is significantly likely to outpace capacity in the corridor without additional short,

medium, and long term transit investments. To maintain corridor transportation capacity enough to meet demands in the future, the region must begin planning a coordinated path forward today.

Transbay Short and Medium - Term Packages

The CCTS has identified additional short and medium term transit investments and transportation policies that can address anticipated future growth beyond the capacity increases of the prerequisite projects. These packages include a set of common projects including fleet and service expansions as well as "package-specific" projects including a dynamic bridge toll increase, surface street transit priority, and dedicated lanes providing direct, dedicated access for Transbay buses. The study team is working now to flesh out specific project definitions and service characteristics, and will evaluate these packages with the goal of informing the Plan Bay Area 2040 investment strategy in September.

Long Term Strategies

The study is also working to define a set of long term strategies for 2030 and beyond. Upcoming work will focus on operator perspectives, market assessment findings for San Francisco and Oakland, and local, regional, and state policy considerations. Based on the short and medium term package evaluation, long-term investments could potentially incorporate ideas such a potential second transit underwater crossing, the impact of emerging technologies such as autonomous vehicles, and other capital or operational improvements for the corridor.

Stakeholder Engagement Process

The study is seeking input from interested groups and individuals throughout the process. The study team has conducted a series of one-on-one meetings with business, environmental, and equity groups. The study will have a display at the Plan Bay Area 2040 workshops in San Francisco and Alameda counties. Starting in December 2016, the study will work to engage community stakeholders and members of the public on long-term strategies. The final report will be complete in March 2017.

Steve Heminger

SH: mm

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Core Capacity Transit Study-Progress Update



Planning Committee
June 10, 2016

Study Purpose

Multi-agency effort focused on increasing transit capacity to the San Francisco Core:











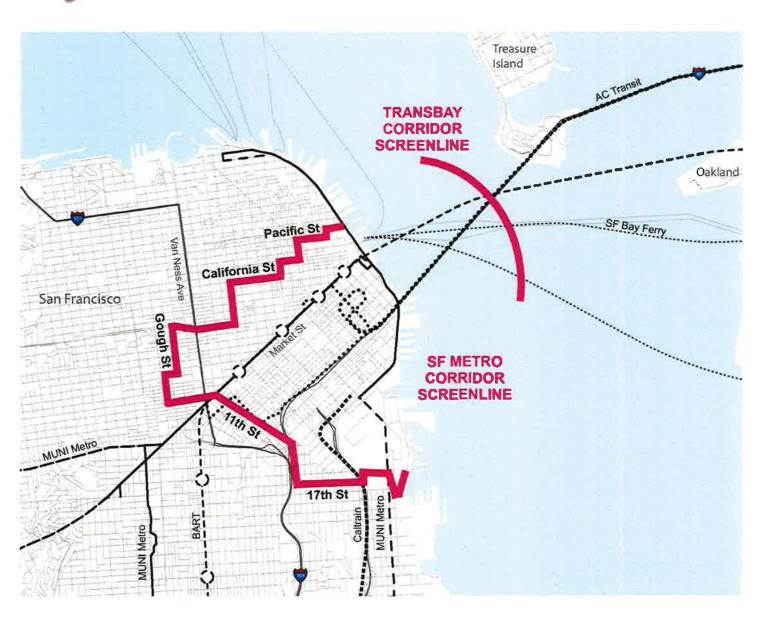




- Develop and recommend projects and strategies by timeframe
 - Short term: to 2020
 - Medium term: 2020-2030
 - Long term: 2030+
- Use short and medium term projects to inform, identify and consider potential long term strategies



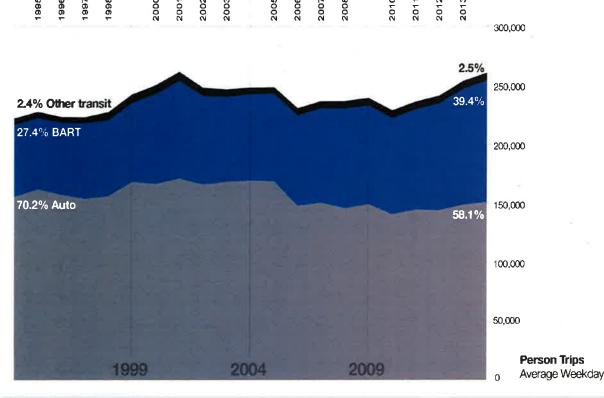
Study Area and Corridors



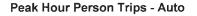
Historical Share of Demand

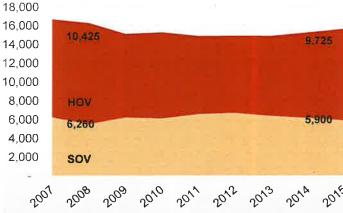
Daily Travel – Transbay Corridor Westbound

1994 1999 2004 2009 2014



Person Trips By Auto -Westbound Peak Hour







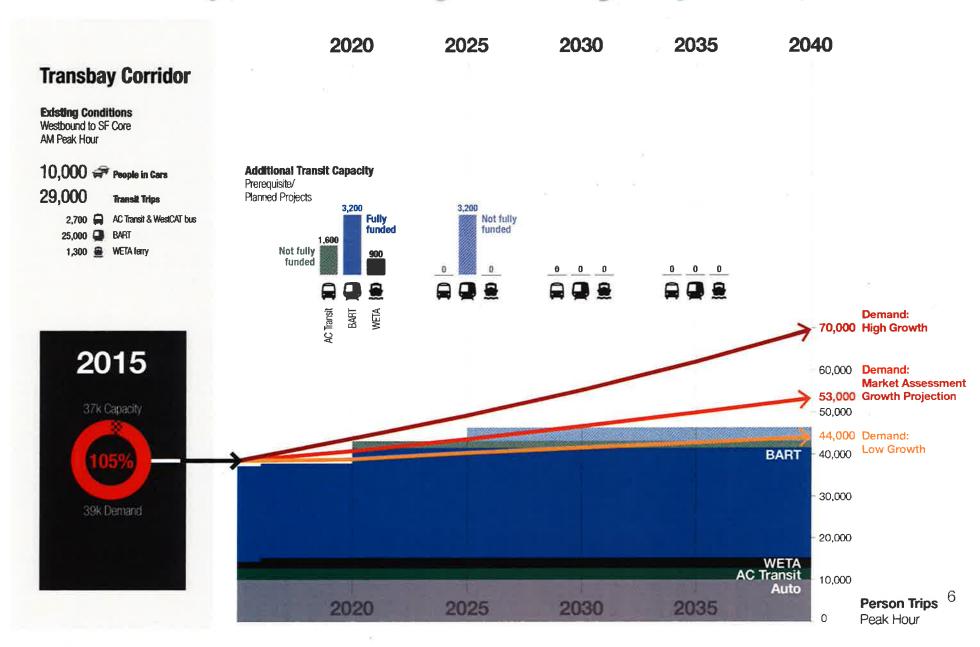
Prerequisite Transbay Projects

Tier 1: Fully funded

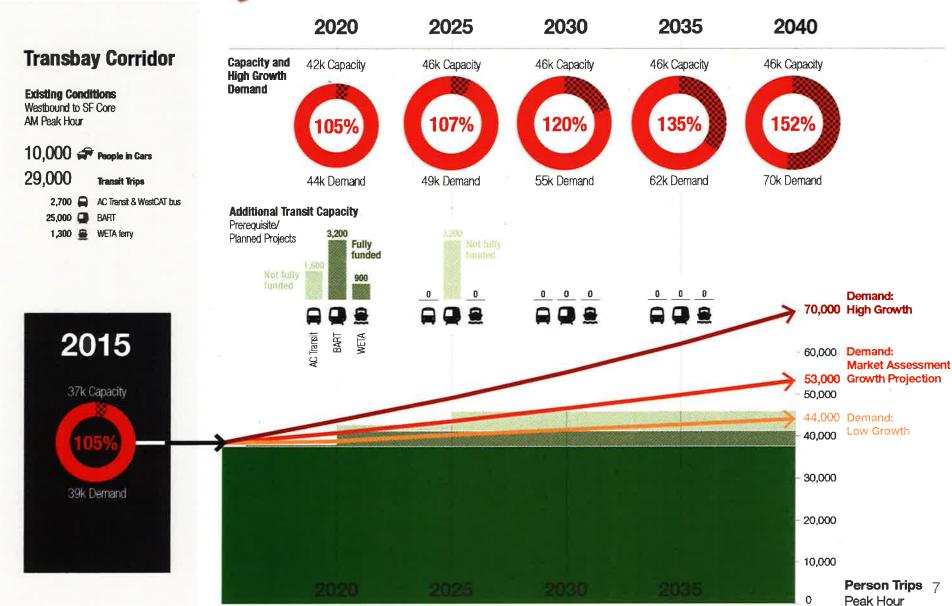
Tier 2: Not Fully Funded

Tier	Timeframe	Sponsor	Project
1	Short Term	AC Transit	AC Transit Richmond Facility Reopening
1 .	Short Term	BART	BART Additional Cars – Fleet Transition
1	Short Term	WETA	WETA Maintenance Facilities Alameda, Vallejo
1	Short Term	WETA	WETA Richmond-SF Ferry Service
1	Short Term	WETA	WETA SF Ferry Terminal Expansion
1	Short Term	WETA	WETA SF Fleet Replacement & Expansion
1	Short Term	Caltrans	I-80 Integrated Corridor Mobility
1.	Short Term	TJPA	Transbay Terminal (Phase 1)
1	Short Term	TJPA	AC Transit Bus Ramp to Transbay terminal
2	Short Term	AC Transit	AC Transit Fleet Expansion (40 buses)
2	Short Term	AC Transit	AC Transit West County Bus Facility (new)
2	Short Term	BART	BART Hayward Maintenance Complex, Phase 1
2	Medium Term	BART	BART Additional Railcars – Core Capacity
2	Medium Term	BART	BART Metro Program
2	Medium Term	BART	BART Traction Power System
2	Medium Term	BART	BART Train Control System
2	Medium Term	BART	BART Hayward Maintenance Complex, Phase 2

Prerequisite Projects By Operator



Transbay Corridor Demand Forecast



Transbay Problem Statement - Summary

- The need to fund and implement the Tier 1 and Tier 2 prerequisite projects under all growth scenarios
- An increasing possibility that growth in demand will outpace capacity
- The need for additional investments in projects, programs and policies to address increasingly significant shortfalls in capacity
- Without significant changes in vehicle occupancy, nearly all future growth would need to be met by transit



Transbay Packages (short & medium term)

PREREQUISITE PROJECTS

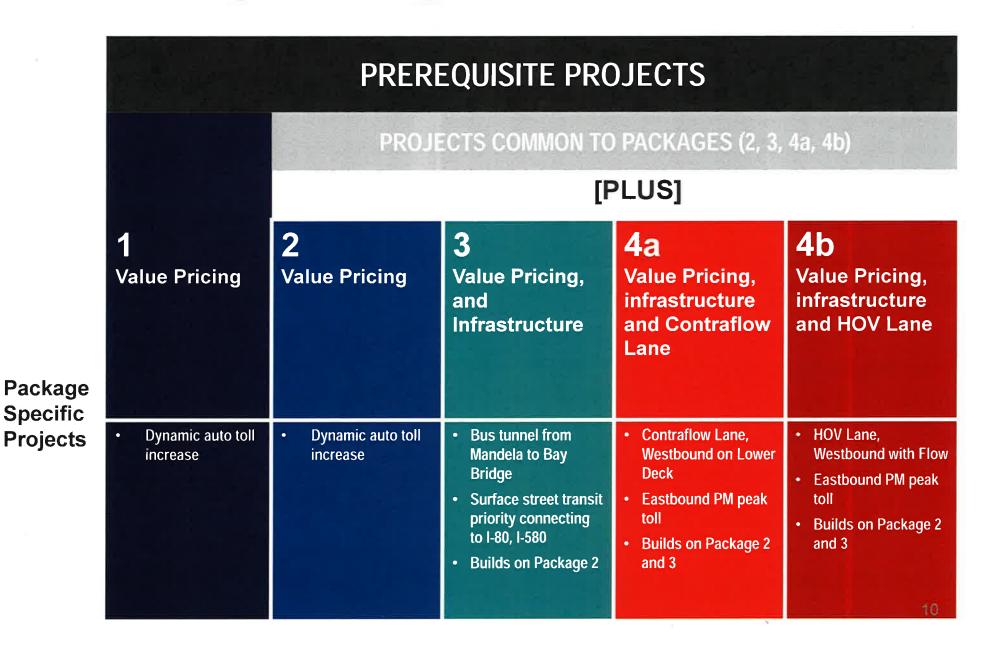
[PLUS]

Projects Common to Packages 2, 3, 4a, 4b

- Automated toll collection
- Fare Adjustment Policies
- Additional Transbay bus service and capital investments (50 buses)
- WETA 30-15 Plan

BART station and system improvements (core-related)

Transbay Packages (short & medium term)



RTP Investment Strategy

Potential "Core Capacity" Investment Strategy in PBA 2040

- Prerequisite Projects
- Placeholder for Short- and Mid-Term Package Projects
- Future Planning for Long-Term "Big Move" Projects

Next Steps

- Identify short- and mid-term projects
- Identify list of "big moves"
- Develop funding request for high-priority CCTS projects
- Fiscally constrain CCTS projects in a PBA40 investment package

MTC adopts the preferred RTP Investment Strategy in **September 2016** MTC adopts Plan Bay Area 2040 in **June 2017**



Long Term Strategies – Study Activities

- Use short and medium term projects to inform, identify and consider potential long term strategies. Upcoming work will describe:
 - Operator perspectives and study assumptions
 - SF and Oakland market assessment findings & relationship to long term themes
 - Local, regional, and state policy considerations
 - Possibility of a second transit crossing
 - Impact of transportation trends, including impact of emerging technologies such as autonomous vehicles
- Conduct public outreach
 - Engage community stakeholders and members of the public on long term themes post November 2016



Project Schedule

