Core Capacity Transit Study:
Community Workshop

San Francisco, CA
February 1, 2017
Tonight’s Agenda

• Project Overview
  • Introduction
  • Study background (purpose, goals, study area, timeline, corridor capacity and demand)

• Q & A

• Breakout Groups
  • Evaluation criteria
  • Short and medium term strategies
  • Long term strategies

• Breakout Groups Report Back

• Project Next Steps
Introductions
Goals of Workshop

Participants will:

• Understand the basic context for the study, including anticipated transit capacity/demand and structural constraints

• Share feedback on transit enhancement concepts developed for the short (5 years), medium (5-15 years), and long (15-25+ years) term
Goals of Workshop

The study team will:

• Document feedback on each of the concepts, for inclusion in the study’s final report alongside results of technical evaluation
Study Background
Partner Agencies

• Seven agency sponsors:

![Partner Agencies Logos]

• Builds off completed/current plans and initiatives
  • “Prerequisite projects” like: New BART train control system, Caltrain Downtown Extension, and many others
Focused on expanding transit capacity and connectivity to the **San Francisco Core**:

- Encompassing existing and future regional employment center
- Served by the Transbay and San Francisco Metro corridor.
Study Area

Corridors

San Francisco

The Core

Metro Corridor

Transbay Corridor

Oakland
Key questions:

• How can we move more people to/from the major SF job centers via transit?
• What types of investments are needed, and when?
Study process:

• Understand the depth of the problem
• Understand the problem across time periods – short, medium, and long term
• Develop policy, service, and infrastructure solutions over those time periods
Guiding Principles

1. Transit should be the **preferred mode** for travel in key corridors, which helps serve important **economic**, **environmental**, and **equity** goals.
Guiding Principles

2. Be **supportive and consistent** with adopted regional land use policies

Photo Credits: Nelson\Nygaard (left three images and top right), Flickr user Anders Sandberg (bottom right)
Guiding Principles

3. Deliver safety, capacity, reliability, accessibility, speed, quality of service

Photo Credits: Flickr user Robert Thompson (left) and Flickr user Mike Behnken (right)
Guiding Principles

4. Operate as a **cohesive system**

Study Background

Photo Credits: Caltrain (left), Nelson\Nygaard (right two)
Guiding Principles

5. Provide operational **redundancy, flexibility, and resilience**
Guiding Principles

6. Design for *maximum value* and implement at *optimal time*
Guiding Principles

7. Consider **transit priority** on highways and appropriate roadway facilities
Connections to Other Planning Work

- Regional: Plan Bay Area
- San Francisco: Connect SF and Subway Vision
Corridor Capacity and Demand
Transbay Constraints: BART Train Capacity
Transbay Constraints: Congestion

Image Source: sfgate.com
Transbay Constraints: Congestion

2030 Peak Hour
7am – 8am

Legend
- HOV Access Point
- 2016 Queue Length
## Transbay: Prerequisite Projects

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<td>AC Transit Richmond Facility Reopening</td>
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<td>WETA SF Fleet Replacement &amp; Expansion</td>
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<td>Transbay Terminal (Phase 1)</td>
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<td>AC Transit Bus Ramp to Transbay terminal</td>
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<td>BART</td>
<td>BART Hayward Maintenance Complex, Phase 2</td>
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Transportation Trends: Transbay Corridor

Transbay Corridor

Existing Conditions
Westbound to SF Core AM Peak Hour

10,000 People in Cars
29,000 Transit Trips
2,700 AC Transit & WestCAT bus
25,000 BART
1,300 WETA ferry

2015
37k Capacity
105%
39k Demand

2020
42k Capacity
105%
44k Demand

2025
46k Capacity
107%
49k Demand

2030
46k Capacity
120%
55k Demand

2035
46k Capacity
135%
62k Demand

2040
46k Capacity
152%
70k Demand

Additional Transit Capacity
Prerequisites/Planned Projects

2020
2025
2030
2035
2040

Person Trips
Peak Hour

Demand: High Growth
70,000

Demand: Market Assessment Growth Projection
54,000

Demand: Low Growth
44,000

Study Background
Transportation Trends: SF Metro Corridor
## SF Metro: Prerequisite Projects

**Tier 1: Fully funded**  **Tier 2: Not Fully Funded**

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<td>SFMTA</td>
<td>Candlestick and Hunters Point Express Bus Service</td>
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<td>SF Better Market Street</td>
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<td>SFMTA</td>
<td>SFMTA Fleet Expansion (light rail and bus)</td>
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<td>Caltrain Operations Improvements – North Terminal</td>
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Transportation Trends: Most Constrained SF Sub-Areas

### Sunset
- **2015**: 13,400 Capacity, 14,950 Demand, 112%
- **2020**: 14,250 Capacity, 15,550 Demand, 109%
- **2025**: 14,250 Capacity, 16,100 Demand, 113%
- **2030**: 14,250 Capacity, 16,700 Demand, 117%
- **2035**: 14,250 Capacity, 17,350 Demand, 122%
- **2040**: 14,250 Capacity, 18,000 Demand, 126%

### Richmond
- **2015**: 16,500 Capacity, 15,600 Demand, 95%
- **2020**: 16,600 Capacity, 16,200 Demand, 98%
- **2025**: 16,600 Capacity, 16,800 Demand, 101%
- **2030**: 16,600 Capacity, 17,450 Demand, 105%
- **2035**: 16,600 Capacity, 18,100 Demand, 109%
- **2040**: 16,600 Capacity, 18,800 Demand, 113%
Sunset Corridor: Key Challenge

Key causes (among others):

- Delays from traffic on surface streets
- Complicated operations where lines merge
Generating Potential Solutions

• Came up with packages of potential solutions for each corridor

• The result (for your feedback tonight):
  • Short/Medium-Term Packages: SF Metro and Transbay
  • Long-Term Options (focused on Transbay)
Short and Medium Term Packages

Prerequisite Projects
Regional commitments with full or partial funding – “baseline”

Projects Common to All Packages
Projects considered in every package

Package-Specific Projects
“Headline” projects

More detail and discussion in small groups!
Long Term Options

Considered:

• How much capacity is needed?
• Different modal options: Bus, ferry, BART, conventional rail (Caltrain/Amtrak Capitol Corridor)
• Potential connections to the inner East Bay
• Alignments through CCTS study area (SF Core)
• Corridors to which different alignments point (alignments outside the core to be considered in a future study)

More detail and discussion in small groups!
Project Schedule

2015
- Develop Evaluation Criteria
- Initial Engineering Studies

2016
- Develop Concept Details
- Preliminary List of Concepts
- Evaluate Concepts

2017
- Further Develop Concepts
- Next Steps Framework
- Draft and Final Report

Project ends March 2017
Next Steps: Big Picture

• Study findings will be integrated with Plan Bay Area 2040
• Short, medium, and long term package elements are well positioned for upcoming funding opportunities
• Agencies will build on the study’s analytical work and refine project alternatives through further study and public engagement
• Stay tuned for follow-on studies on the important topics in each corridor
Questions?
Agenda for Breakout Groups

• Introduction to evaluation criteria
• Discuss, documenting feedback
  • Transbay Short/Medium-Term Packages
  • SF Metro Short/Medium-Term Packages
  • Long-Term Options
Key Questions to Consider

- How well does each package address existing conditions and trends?
- In your view, which package shows the most promise in addressing challenges in each corridor?
- Anything else the study team should think about and document for future studies?
Breakout Sessions
Sharing Key Takeaways
Next Steps: With You

• Stay tuned to the project website: mtc.ca.gov/core-capacity

• We will add you to the project e-mail list and alert you to major new deliverables like the final report
Thank you!

Questions? Contact:
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