

Core Capacity Transit Study: Community Workshop

CORE CAPACITY
TRANSIT STUDY



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:



PROJECT
TEAM



- Builds off completed/current plans and initiatives
 - “Prerequisite projects” like: New BART train control system, Caltrain Downtown Extension, and many others

Study Area

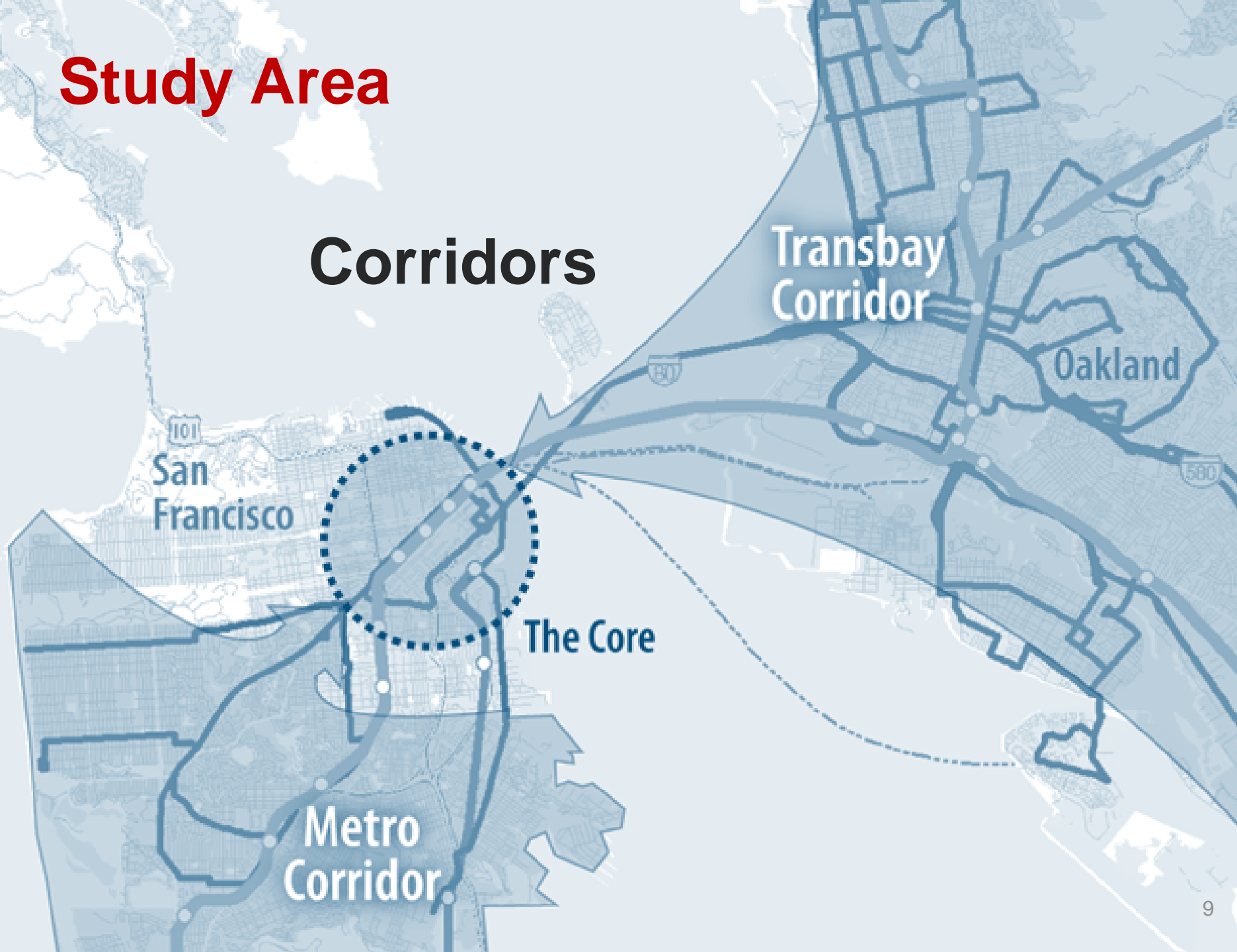
Focused on expanding transit capacity and connectivity to the **San Francisco Core**:



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

Study Area

Corridors



Process

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?



Photo Credit: NelsonWygaard (top) and Flickr user Phoca2004 (bottom)

Process

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



Photo Credits: NelsonWygaard

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

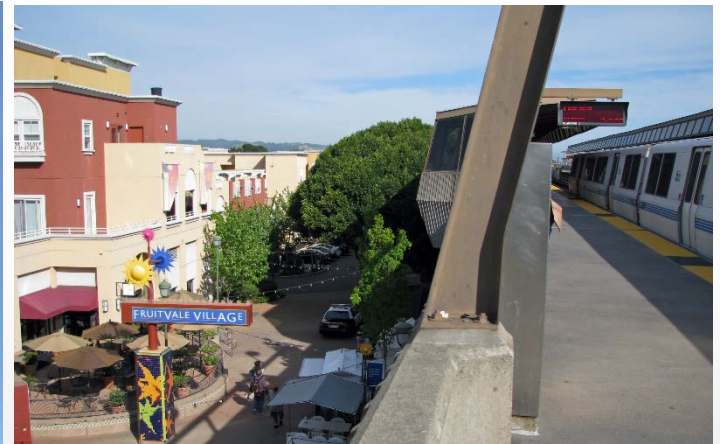
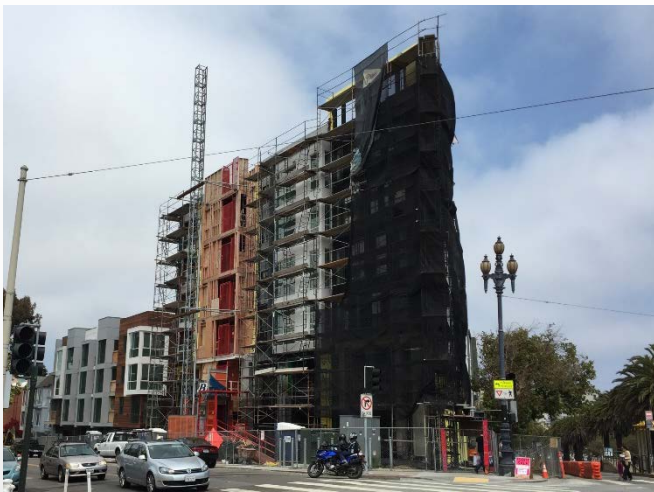


Photo Credits: Nelson\Nygaard (left three images and top right), Flickr user Anders Sandberg (bottom right)

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



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

Guiding Principles

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



Photo Credits: NelsonWygaard (left and top right),
Flickr user TJ Gehling (bottom right)

Guiding Principles

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



Photo Credits: Flickr user Eric Fischer

Guiding Principles

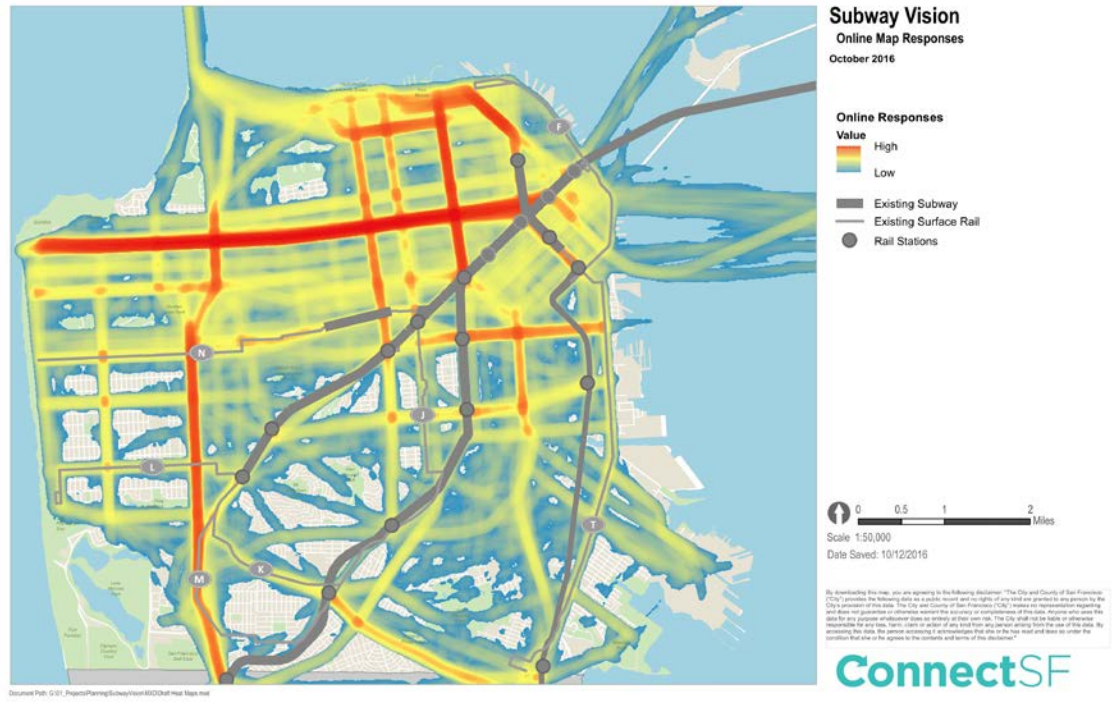
7. Consider **transit priority** on highways and appropriate roadway facilities



Image Credit: SFMTA

Connections to Other Planning Work

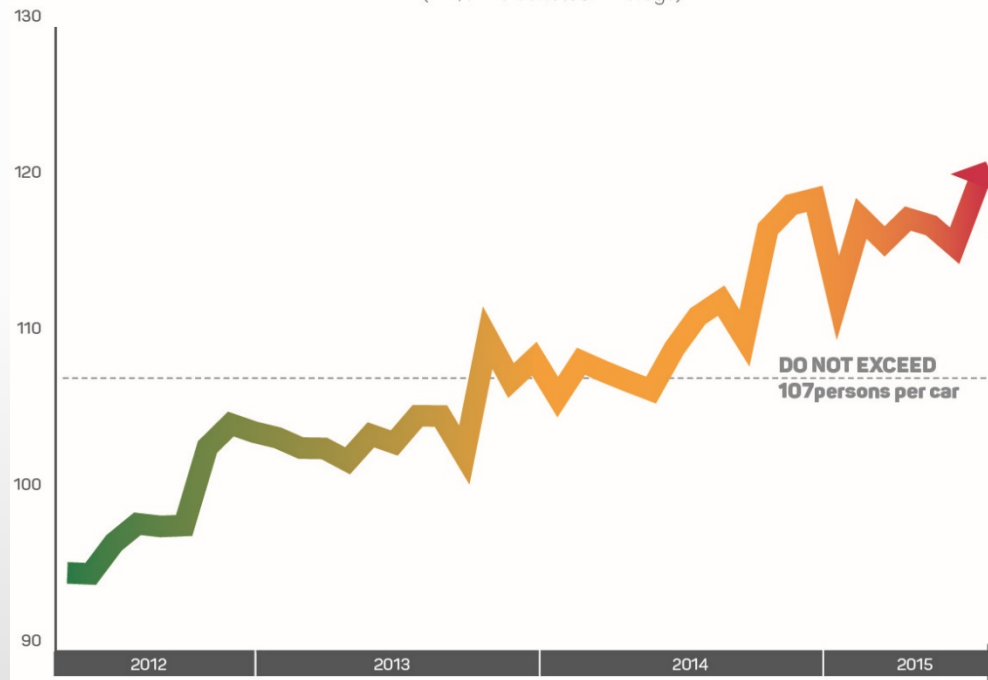
- Regional:
Plan Bay Area
- San Francisco:
Connect SF and
Subway Vision



Corridor Capacity and Demand

Transbay Constraints: BART Train Capacity

Transbay Peak Hour Passengers per Car
(AM/PM Peak Hour Average)



COMFORTABLE (100 people per car)



CROWDED (115 people per car)



OVERCROWDED (130 people per car)



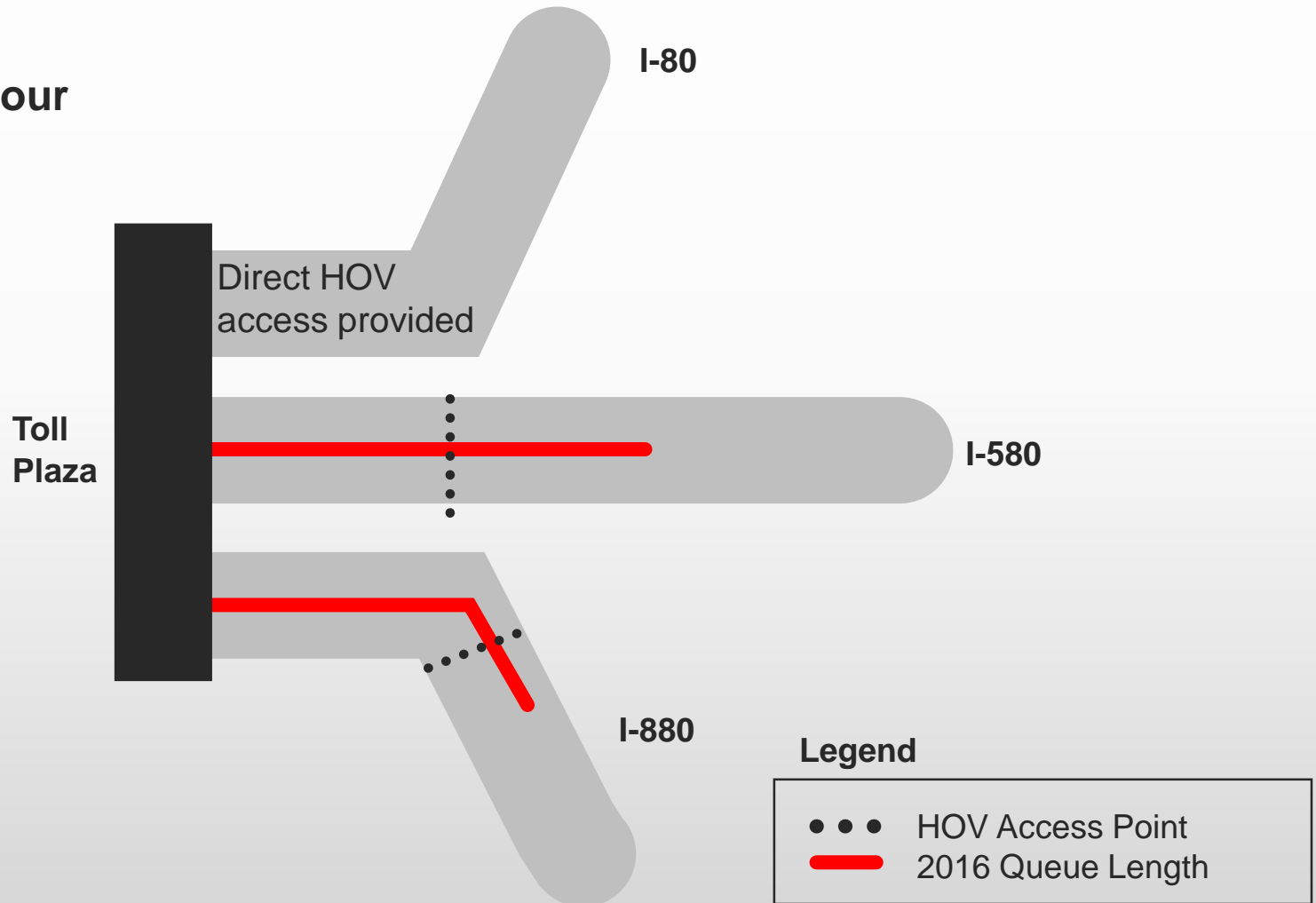
Transbay Constraints: Congestion



Image Source: sfgate.com

Transbay Constraints: Congestion

2030 Peak Hour
7am – 8am



Transbay: Prerequisite 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	Short Term	MTC	Bay Bridge Forward
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

Transportation Trends: Transbay Corridor

Transbay Corridor

Existing Conditions
Westbound to SF Core
AM Peak Hour

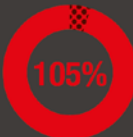
10,000 **People in Cars**

29,000 **Transit Trips**

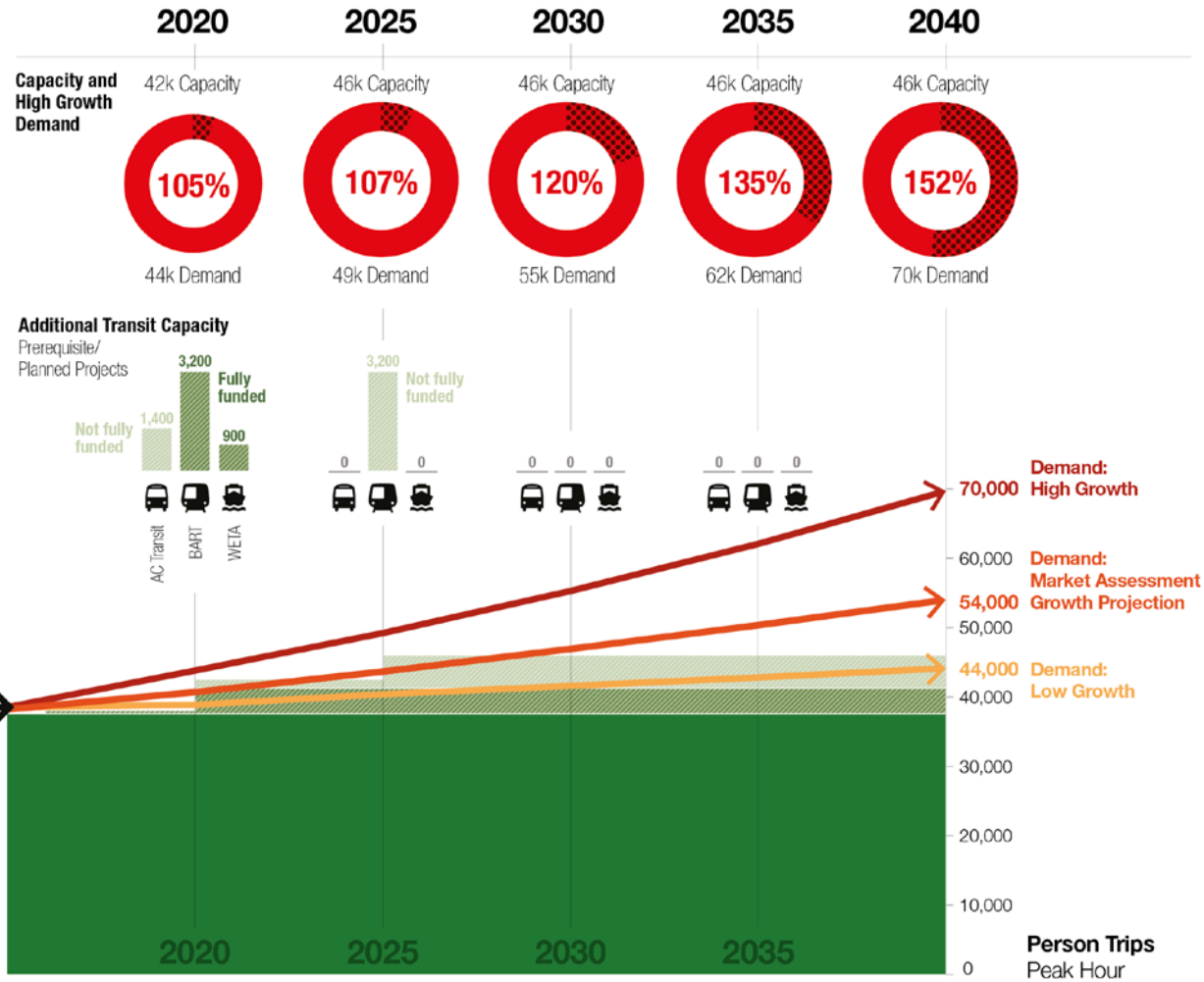
- 2,700 AC Transit & WestCAT bus
- 25,000 BART
- 1,300 WETA ferry

2015

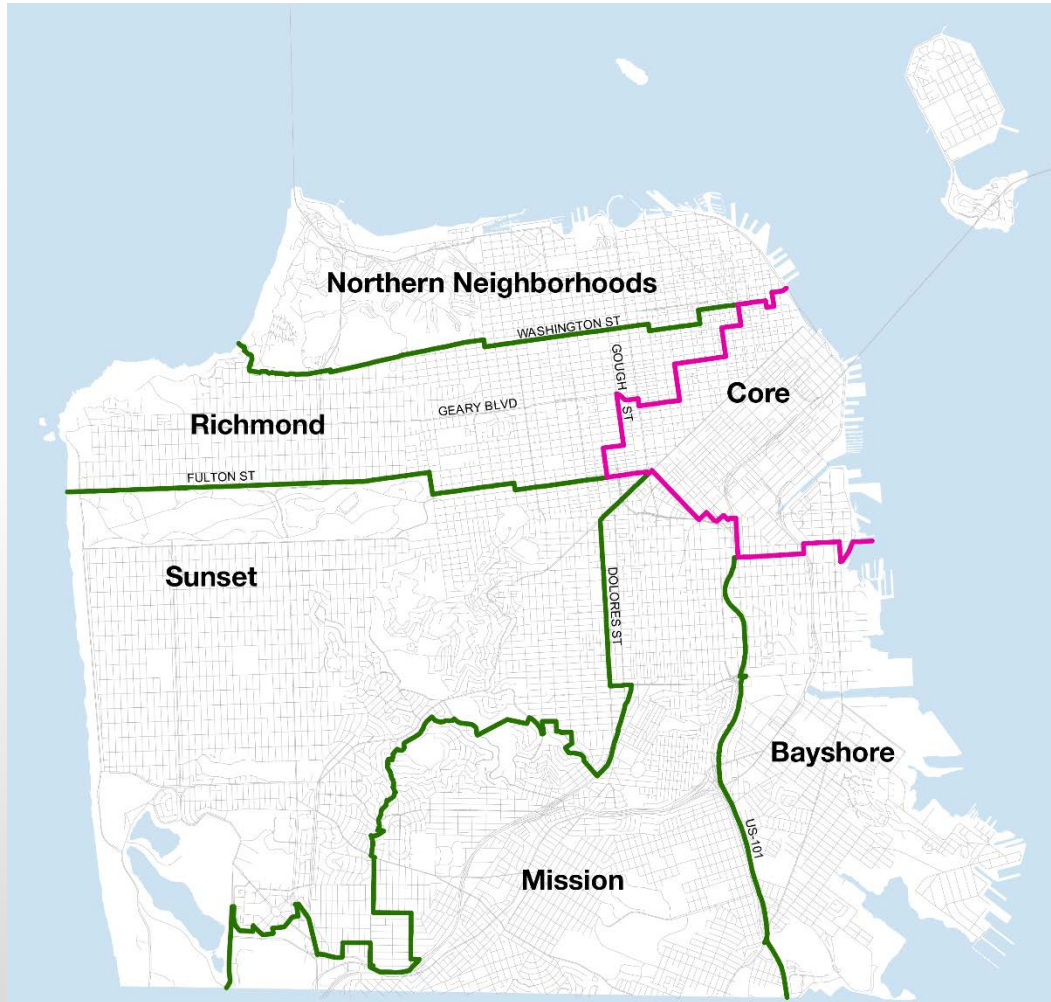
37k Capacity



39k Demand



Transportation Trends: SF Metro Corridor



SF Metro: Prerequisite Projects

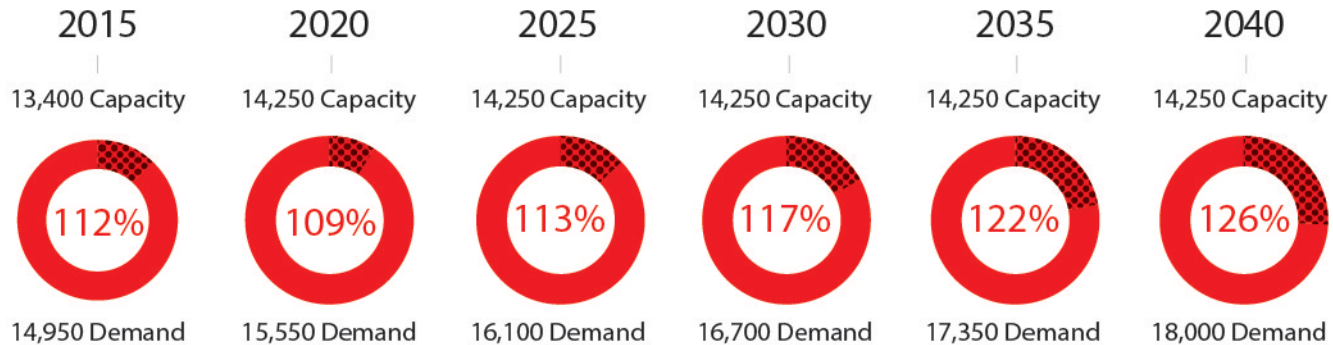
Tier 1: Fully funded

Tier 2: Not Fully Funded

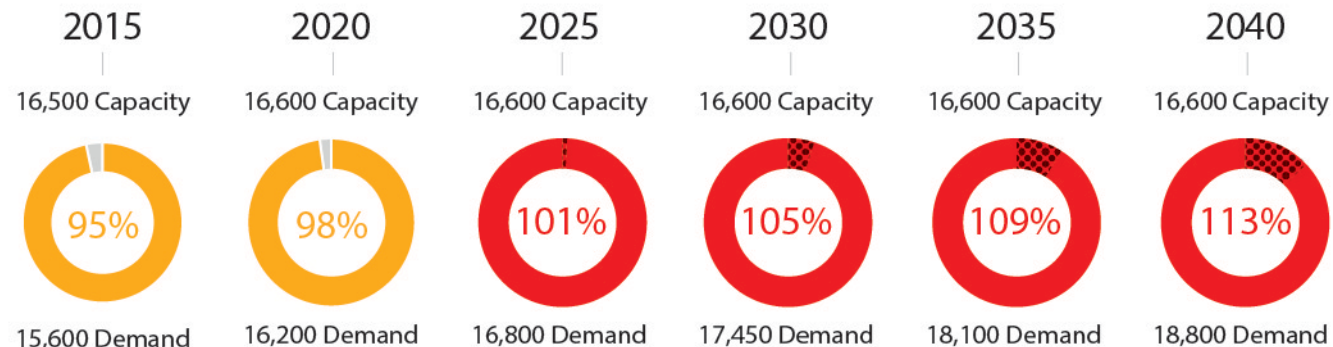
Tier	Timeframe	Sponsor	Project
1	Short Term	SFMTA	Central Subway
1	Short Term	SFMTA	Candlestick and Hunters Point Express Bus Service
1	Short Term	SFMTA	SFMTA Muni Forward
1	Short Term	SFMTA	SFMTA Van Ness Avenue Bus Rapid Transit
1	Short Term	SFMTA	SFMTA SFgo
1	Short Term	SFMTA	SFMTA T-Third Mission Bay Loop
1	Short Term	SFMTA	SFMTA 16th Street Corridor Transit Priority
2	Short Term	BART	BART Hayward Maintenance Complex, Phase 1
2	Short Term	SFMTA	SF Better Market Street
2	Short Term	SFMTA	SFMTA Fleet Expansion (light rail and bus)
2	Short Term	SFMTA	SFMTA Muni Forward Phase 2
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	Hayward Maintenance Complex Phase 2
2	Medium Term	Caltrain	Caltrain Electrification
2	Medium Term	Caltrain	Caltrain CalMod 2.0
2	Medium Term	Caltrain	Caltrain Operations Improvements – North Terminal
2	Medium Term	SFMTA	SFMTA Transit Facilities Improvements
2	Medium Term	TJPA	Downtown Extension

Transportation Trends: Most Constrained SF Sub-Areas

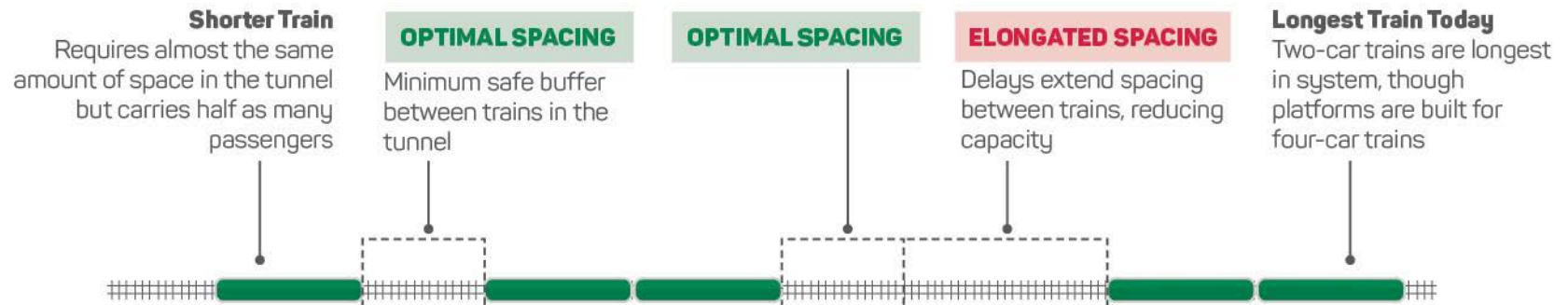
Sunset



Richmond



Sunset Corridor: Key Challenge



Key causes (among others):

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

Generating Potential Solutions

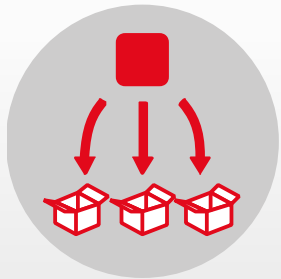
- Came up with packages of potential solutions for each corridor
- The result (for your feedback tonight):
 - Short/Medium-Term Packages: SF Metro and Transbay
 - Long-Term Options (focused on Transbay)

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

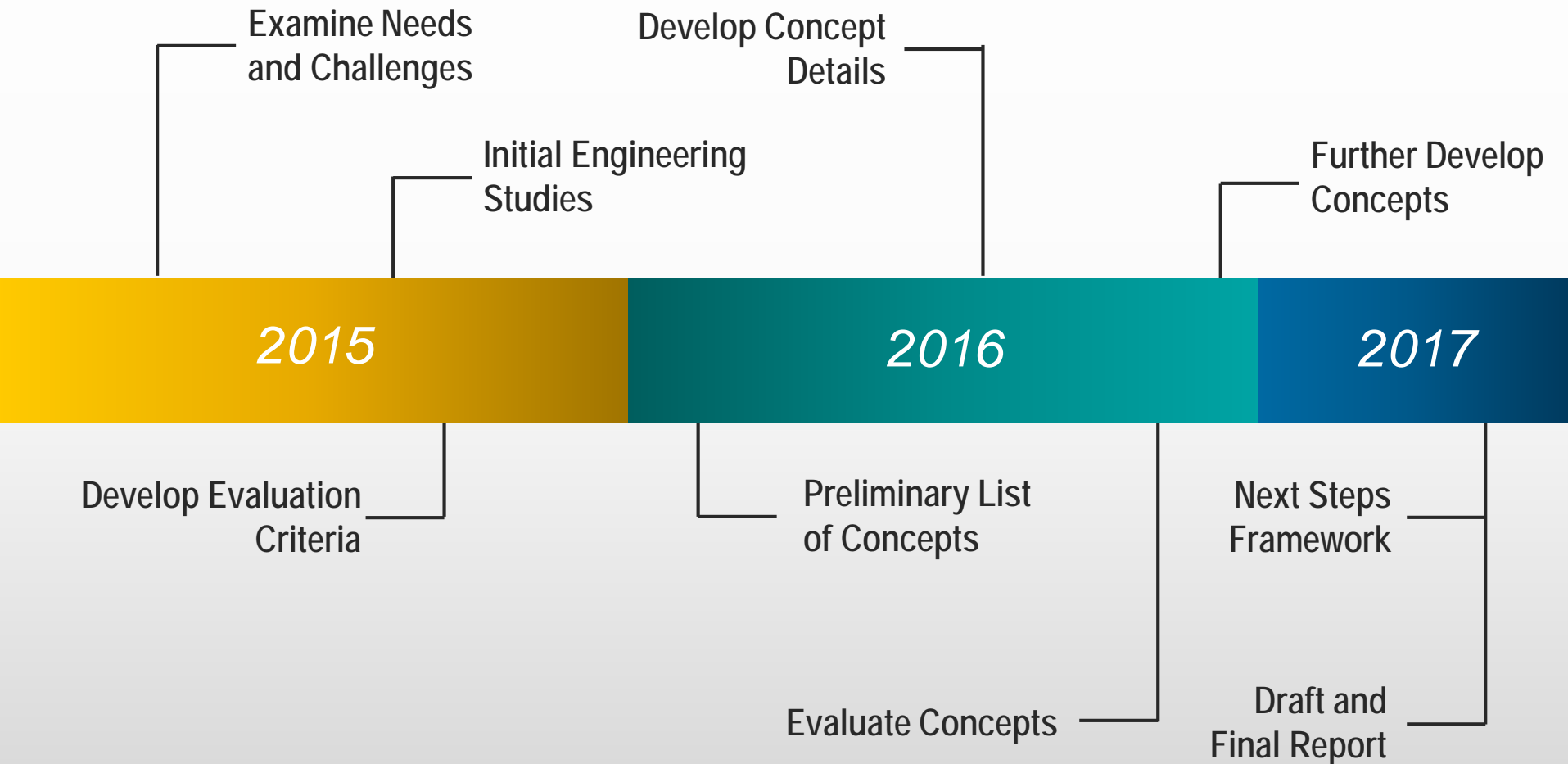
“Headline” projects

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)

Project Schedule



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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