



SAN FRANCISCO TO SAN JOSE PROJECT UPDATE

**San Francisco County Transportation Authority
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HIGH-SPEED RAIL: Connecting California



Increase Mobility



Needed Alternative



Better Air Quality



Job Growth

2016 BUSINESS PLAN: Key Highlights

- **Silicon Valley to Central Valley Line**
 - » Operational by 2025
 - » San Jose-North of Bakersfield
 - » \$20.7 Billion – Fully Fundable
- **Extension to San Francisco, Merced & Bakersfield**
 - » Operational by 2025
 - » Additional \$2.9 Billion
- **Phase 1 (San Francisco-LA/Anaheim)**
 - » Operational by 2029



CONNECTING CALIFORNIA: Northern California

- **Improves Mobility & Upgrades** Bay Area Transportation Infrastructure
- **Connects** Bay Area to Central Valley
- **Blended** System Along Peninsula
- **Multi-Model Transportation Hubs**
 - » Transbay Transit Center
 - » Millbrae-SFO
 - » San Jose Diridon Station
 - » Gilroy Station



THE BLENDED SYSTEM: The State's Investment

- **High-Speed Rail:**
 - » \$713 Million for Peninsula Corridor Electrification Program
 - » \$105 for Positive Train Control
- **Transit and Intercity Rail Capital Program:**
 - » \$20 Million for Peninsula Corridor Electrification Program



PROJECT DESCRIPTION

- **Elements of Blended Service:**
 - » Station Elements
 - » Train Storage and Maintenance Facility
 - » Safety Improvements
 - » Grade Crossing Treatments
 - » Track Adjustments
 - » Passing Tracks

THE BLENDED SYSTEM: What it Means

- **Reduced Costs**
- **Increased Ridership Capacity & Service**
 - » Primarily Shared Two-Track System on Caltrain Corridor
- **Environmental Benefits:**
 - » Improved Regional Air Quality
 - » Reduction of Greenhouse Gas Emissions
- **Improved Safety**
 - » Positive Train Control
 - » Early Earthquake Warning System
 - » Quad Gates, Fencing & Grade Separations

SAN FRANCISCO TO SAN JOSE: Narrowed Alternatives



Altamont Corridor Alternative (2008)

- Impacts to wetlands, waterbodies and the environment
- Strong support from local cities, agencies and organizations

Highway 101 and I-280 Alternatives (2008)

- Environmental and socioeconomic impacts
- Lack of connectivity
- Constructability and cost factors

Fully grade-separated, four-track system (2011)

- Additional community impacts
- Substantially higher-costs (\$6 billion)
- Substantial construction impacts
- Legislation (SB 1029)

New tunnel alignment from Brisbane to Transbay Transit Center* (2016)

- Construction challenges
- Shift to blended system

Optional Mid-Peninsula Station* (2016)

- Ridership analysis
- Market demand

*Alternatives that could be studied in other environmental processes

SAN FRANCISCO TO SAN JOSE: Overview

- 51-Mile Blended Corridor
- Smallest footprint of previously considered alternatives
 - » Fewer impacts to landowners
 - » Fewer environmental impacts
- Currently evaluating two alternatives
 - » Three Key Project Elements
 - » Common Project Elements
- Stations being studied
 - » San Francisco (4th and King)
 - » Millbrae (SFO)
 - » San Jose (Diridon)
- Elements of the alternatives can be “mixed and matched”



SAN FRANCISCO TO SAN JOSE: Range of Alternatives



Alternative B

- Light Maintenance Facility – Brisbane West
- Additional Passing Tracks
- Aerial Approach to Diridon—Long Viaduct

Elements of the alternatives can be “mixed and matched”

SAN FRANCISCO TO SAN JOSE: Common Project Elements

- **Station Modifications and Dedicated Platforms**
 - » San Francisco 4th and King
 - » Millbrae
- **110 MPH Speeds**
 - » Track modifications are required to support higher speeds



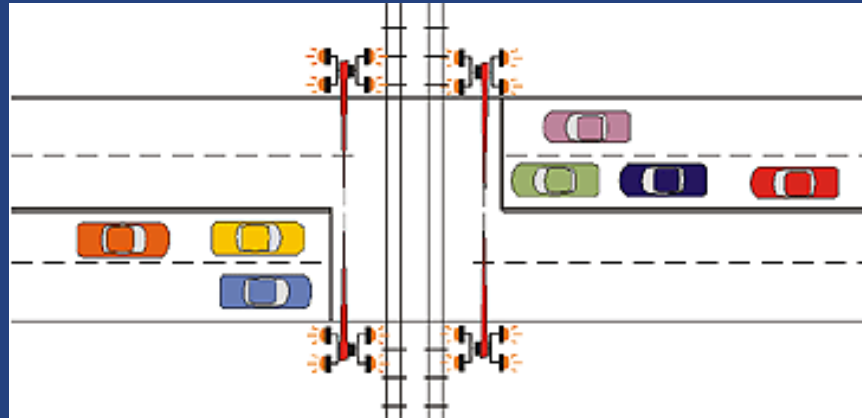
Example of “hold-out rule”

- **4 High-Speed Rail trains and 6 Caltrain trains per hour/per direction in the peak period**
- **Safety modifications at 41 at-grade roadway crossings**
 - » Includes 3 planned grade separation projects - 25th, 28th, & 31st Avenues
- **Address hold-out rule at Burlingame Broadway and Atherton Caltrain Stations**
- **Evaluating potential safety modifications at Caltrain-only stations**

BLENDED SERVICE ELEMENTS

- **Safety Improvements**

- » Perimeter Fencing
- » Four-Quadrant Gates at At-Grade Crossings
 - Existing one Set of Four-Quadrant Gates at Fair Oaks Lane



- **Track Adjustments**

- » Upgrades: Supports Faster Trains
- » Curve Straightening: Supports Higher Speeds
- » Relocation: Accommodates Improved Track Geometry

4TH AND KING STATION UPDATE

Platforms and tracks

- » Optimum platform length and location

Station Facilities

- » Station as destination
- » New station entrance and above track concourse at 5th Street
- » Connections to 4th and Townsend Caltrain station below grade

Station Access

- » Bicycle connectivity and safety
- » Transit access
- » Relieve pedestrian congestion
- » Transportation network company facilities



Study Area



Preliminary Footprint

SAN FRANCISCO TO SAN JOSE: Stakeholder Engagement



Scoping and Open House Meetings

3 scoping meetings held in Spring 2016

Spring 2017 Open Houses: San Francisco (Wednesday, April 5)
Mountain View (Tuesday, April 11), San Mateo (Thursday, April 13)



Community Working Groups, CSCG, LPMG

» **9 Community Working Group Meetings**

- 3 rounds to date, 82 organizations participating

» **Bi-monthly City/County Staff Coordinating Group Meetings**

» **Bi-monthly Local Policy Maker Group Meetings**



Ongoing Community Activities

» **Multi-faceted, multi-language, multi-community approach**

» **Over 150 meetings, presentations and briefings since 2016**

SAN FRANCISCO TO SAN JOSE: Outreach Update

- **April Open Houses**

- Wednesday, April 5 – San Francisco
- Tuesday, April 11 – Mountain View
- Thursday, April 13 – City of San Mateo

- **Community Working Groups**

- » Meet in late January/early February

- **Recent Outreach Activities**

- » Briefings to Elected Officials
 - Millbrae City Council Presentation
 - Federal and State Legislative Briefing
- » Briefings to Business and Community Groups
 - San Francisco Chamber of Commerce
 - Little Hollywood Neighbors (San Francisco)
 - Friendly Acres Neighborhood Association (Redwood City)
 - Bayview Hill Neighborhood Association (San Francisco)
 - Redwood City/San Mateo Chamber of Commerce
 - Old Quad Residents Association (City of Santa Clara)



SAN FRANCISCO TO SAN JOSE: Milestone Schedule*

Spring 2016

Project
Definition

Spring 2017

Design &
Technical
Analysis
Station
Footprint
Outreach

Summer 2017

Identify
Preferred
Alternative
Board
Concurrence
Outreach

Fall 2017

Release Draft
Environmental
Document
Outreach
Public Hearing

2018

Final
Environmental
Document/
Record of
Decision

*Preliminary/Subject to Change

THANK YOU & STAY INVOLVED

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