



Caltrain Modernization Program

TA Board
Feb. 6, 2014



About Caltrain

- Diesel commuter rail system
- San Francisco to San Jose/
Gilroy
- 77-mile corridor, 32 stations
- 92 weekday & 68 weekend
trains
- Ridership: ~ 53,000
weekday & 1.3 million
monthly





Blended System Vision

Community-driven Approach

2-track System (Primarily)

Up to 110 mph

Partially Grade Separated

6 Caltrains / per peak hour per direction

Up to 4 HSR trains / per peak hour per direction*

*Based on LTK computer model simulation (March 2012)

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Policies

- 2012 CHSRA Business Plan
- 2012 Regional 9-Party Funding MOU
- 2013 JPB/CHSRA New Agreement

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CalMod Partnerships

- Boards / Elected Officials
 - Joint Powers Board; Local Policy Maker Group; City Councils / Committees
- Advisory Committees
 - Citizen Advisory Committee; Bicycle Advisory Committee
- Staff
 - City / County Staff Coordination Group; Peninsula Corridor Working Group
- Community Leaders / Advocacy Organizations

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Peninsula Corridor Early Investment

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Caltrain Modernization

- \$1.5 Billion Regional Funding Plan
- Projects
 - Advanced Signal System (2015)
 - Corridor Electrification and EMUs (2019)



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Advanced Signal System

(2015)

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Requirements

- PTC
 - Prevent train-to-train collisions
 - Prevent over speed derailments
 - Prevent incursions into established work zones
 - Prevent movement through a misaligned switch
 - Interoperability
- Caltrain
 - Enhanced crossing safety / performance
 - Improved headways and operational flexibility
 - Enforcement of scheduled station stops
 - Schedule management
 - Employee In Charge

Delivery Milestones

Description	Milestones
Project Planning and Procurement	2010 - 2011
Phase 1 - Critical Design	2012 – 2013
Phase 2 - Final Design, Data Communications Subsystem & Fiber Backbone Installation	2013 – 2014
Phase 3/4 - Installation, Testing, Commissioning	2014 – 2016 (Revenue service October 2015)

Corridor Electrification and Electric Multiple Units (2019)

Scope

- Area
 - 51+ miles
 - SF to Tamien in SJ
- Service
 - Up to 79mph
 - 6 trains / hour / direction
 - Mixed-fleet service (interim period)
- 25KV AC Electric Service
 - Poles, OCS, Traction Power Facilities



Delivery Milestones

Activity	2013	2014	2015	2016	2017	2018	2019
Stakeholder Outreach	█	█	█	█	█	█	█
Establish Owner's Team	█						
Environmental Clearance	█	█					
Procure/Select Contractor Team		█	█				
Design/Manufacture/Build				█	█	█	█

Design Build Delivery Method Approved by JPB September 2013

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Peninsula Corridor Blended System

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Caltrain/HSR Blended System

- Revenue Service (2026 – 2029)
- Continued Planning
- Additional Investments TBD
 - Caltrain extension to SF downtown
 - HSR stations
 - Grade separations
 - Passing tracks
 - Maintenance facility

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Questions

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