



Corridor Electrification Environmental Process

Board of Directors
January 3, 2013



Context

Peninsula Vision

- **Blended System**
- **Concept**
 - Electrify / Upgrade railroad
 - Maximize use of existing tracks
 - Caltrain and HSR on shared tracks
 - Support freight and other passenger services
- **Key Benefits**
 - Minimize community impact
 - Lower project cost
 - Advance project delivery

3

Operational Analysis (LTK Engineering)

- Blended system concept has merit
- Capacity: Up to 10 trains / hour / direction
- Speed: Up to 79mph and 110mph

# of Trains	Without Passing Tracks	With Passing Tracks
Caltrain	6	6
HSR	2	4

4



Regional 9 Party Funding MOU

- Blended System Commitment
- 1st Incremental Investment
 - \$1.5 billion for Corridor Electrification
 - \$705 million from HSR State Bond
 - Remainder from other local, regional, state and federal sources
 - Caltrain electric service by 2019
- Future Incremental Investments
 - Projects and funding TBD
 - Blended HSR service by 2026-2029

5



Environmental Process

6



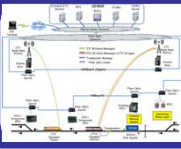
ICF: Environmental Program Manager

- ICF has been a SamTrans on-call environmental contractors
- Prior rail and transit CEQA/NEPA experience in California and with FTA
- Locally-based program manager and staff with Peninsula experience.

7



Corridor Improvement Plan: Environmental Process Sequencing

	Project: Advanced Signals (PTC/CBOSS) Environmental Document: Categorical Exemption/Categorical Exclusion Lead Agencies: Caltrain and FTA Environmental Schedule: Completed Project In-Service Date: 2015
	Project: Corridor Electrification (6 Caltrain per peak hour = "6-0") Environmental Document: Environmental Impact Report/Environmental Assessment Lead Agencies: Caltrain and FTA Environmental Schedule: 2013 - 2014 Project In-Service Date: 2019
	Project: Blended Service (6 Caltrain + Up to 4 High-Speed Rail = "6 + up to 4") Environmental Document: Environmental Impact Report/Environmental Impact Statement Lead Agencies: CHSRA and FRA Environmental Schedule: TBD Project In-Service Date: 2026/2029

8

Electrification Environmental Clearance

- Distance: 51 miles (San Francisco to Tamien)
- Speed: Up to 79 mph
- Service: 6 trains / ph / pd
- Infrastructure / Vehicles
 - Poles and Wires (OCS)
 - Traction Power Facilities (TPF)
 - Electric Powered Vehicles (EMU)

9

Cumulative Analysis

- For future anticipated / related projects
- Key projects:
 - MTC Regional Transportation Plan
 - Blended Service (Up to 2 and 4 HSR trains)
 - SF Downtown Extension
 - Local Development Plans

10



Simulation: Main Line



11



Simulation: At Station



12



Simulation: At Station



13



Simulation: Traction Power Station



14

Positive Environmental Impacts

- Regional congestion
- Energy consumption
- Air pollutants
- Greenhouse gas emissions
- Noise
- Vibration

15

Environmental Impact Issues

- Noise
- Traffic
- Visual Aesthetics
- Land Use Compatibility
- Other CEQA/NEPA Subjects
- Cumulative Impacts

16

Key Schedule Milestones

- January/February 2013 Public Scoping
- Fall/Winter 2013 Draft EIR/EA
- Spring/Summer 2014 Final EIR/EA
- Summer/Fall 2014 Project Approval

Q & A