Caltrain Modernization Program

Prepared for: Stakeholder outreach meetings
Prepared by: Caltrain staff
February 2012

Presentation

• Blended System Planning Update
• Early Investment Proposal
Blended System Planning Update

Context

- HSR approved by voters
- Caltrain corridor selected to support HSR
- Both systems need electrified corridor
- Caltrain and HSR partnership
- Combine resources to modernize corridor
HSR Original Plan
- “Full Build” project in peninsula
  - 4 track system
  - Fully grade separated
- Local rejection
- HSR “Full Build” design & project environmental activities in peninsula on hold

Peninsula Vision
- Elected officials call for “blended system”
- What is it?
  - Electrified railroad from SJ to downtown SF
  - Support both Caltrain and HSR
  - Maximize use of existing tracks
- Why?
  - Minimize community impact
  - Lower project cost
  - Advance project delivery
Is the Blended System Feasible?

- Multiple considerations
- 1st address operational feasibility
- Computer simulation of existing railway
  - Existing mainline tracks
  - Electric system with advanced signal system
  - 3 HSR stations
  - Passing tracks

Key Findings

- Blended system concept has merit
- **Potential**: Up to 10 trains / hour / direction
- Speeds up to 79mph and 110mph

<table>
<thead>
<tr>
<th># of Trains</th>
<th>Without Passing Tracks</th>
<th>With Passing Tracks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caltrain</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>HSR</td>
<td>2</td>
<td>4</td>
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Planning Status

- Capacity Analysis
- Service Plan / Operations Considerations
- Grade Crossing & Traffic Analysis

Service Plan Options

- Infrastructure Need
- Fleet Need
- Revenue / Cost

Decision-Making Matrix

- Blended System Alternatives
- Design & Environmental Review

Early Investment Proposal
Context

- **HSR Draft Business Plan**
  - Includes blended system concept
  - Discusses early investment in existing rail systems

- **Input to HSR Revised Plan**
  - Identification of early investment projects
  - Southern CA projects defined
  - Bay area projects being defined

Early Investment Parameters

- Located in HSR SJ to SF segment
- Support Caltrain modernization & blended system
- Do not compromise local planning process
- Short-term timeframe
- Funding: Prop 1A and match (up to $2B?)
Draft Proposal

- **Vision:** Blended System to downtown SF

- **Early Investment**
  - Electrified Caltrain service
  - Caltrain/HSR transfer at Diridon

- **Recommended Priority Projects**
  - Advanced signal system ($231M)
  - Caltrain electrification ($785M)
  - Electric trains ($440M)
  - Infrastructure upgrade (TBD)
  - Rail crossings upgrade (TBD)
  - SF / SJ (TBD)

Draft Proposal, cont.

- **Additional Investment**
  - HSR one-seat ride LA to SF
  - Cost and funding TBD

- **Key Projects**
  - DTX
  - HSR and Caltrain system integration
  - Infrastructure upgrade
  - Stations upgrade
  - Rail crossings upgrade
  - Passing Tracks TBD
  - Storage and Maintenance Facility TBD
Outreach

- City/County staff coordination
- Transportation agency coordination
- Public meetings
  - CC meetings as requested
  - SM Rail Corridor (February 29th)
  - PCC (March 2nd)

Upcoming Transportation Meetings

- JPB meeting – March 1st
- MTC meeting – March 28th
- HSR Board meeting – April 5th