



Caltrain Modernization Program

June 2, 2016
SMCTA BOD Meeting



Caltrain Modernization Program

- Advanced Signal System: CBOSS PTC (2016)
- ➔ Peninsula Corridor Electrification Project (2020/2021)





Advanced Signal System

- Communications Based Overlay Signal System (CBOSS) Positive Train Control (PTC)
- Fiber Optic Network
- Project Requirements
 - Includes federal mandate (PTC)
 - Improves Caltrain performance
- Project Partners
 - FRA, UP, CHSRA, JPB
- Needed for Blended System

3



Peninsula Corridor Electrification Project

Area	Project	Service
51+ miles San Francisco to San Jose (Tamien Station)	Electrification: <ul style="list-style-type: none">• Overhead Contact System (OCS)• Traction Power Facilities Electric Trains (EMUs) <ul style="list-style-type: none">• 75 percent	Up to 79 mph Service Increase <ul style="list-style-type: none">• 6 trains / hour / direction• More station stops / reduced travel time• Restore Atherton & Broadway service Mixed-fleet service (interim period) Continue tenant service

4



Key Regional Benefits (2040)



Note: 2013 Bay Area Council Report, generates \$2.5 billion economic activity and 9,600 jobs



Major Contracts and Funding Update



Electrification Infrastructure Contract

2014	2015	2016
June: Pre-Qualification Process (6 firms)	Feb: RFP Issued Aug: Proposals Received (4 firms) Oct: Shortlisted (3 firms) Dec: Best and Final Offer (BAFO) Issued	Feb: BAFO Proposal Received March: Apparent Best Value Proposal

7



Electric Train (EMU) Contract

2014	2015	2016
May: Request for Information (6 firms)	Jan – June: Compatible Boarding Heights Discussion (2-4 firms) July: RFP Issued based on JPB Direction	Feb: Proposal Received

8

Contract Next Steps

- For Both Infrastructure and Electric Vehicles
- Continue Negotiations on Price
- Discuss / Finalize Policy Decisions
- Contract Award
 - Limited Notice to Proceed for six months
 - Full Notice to Proceed in 2017

9

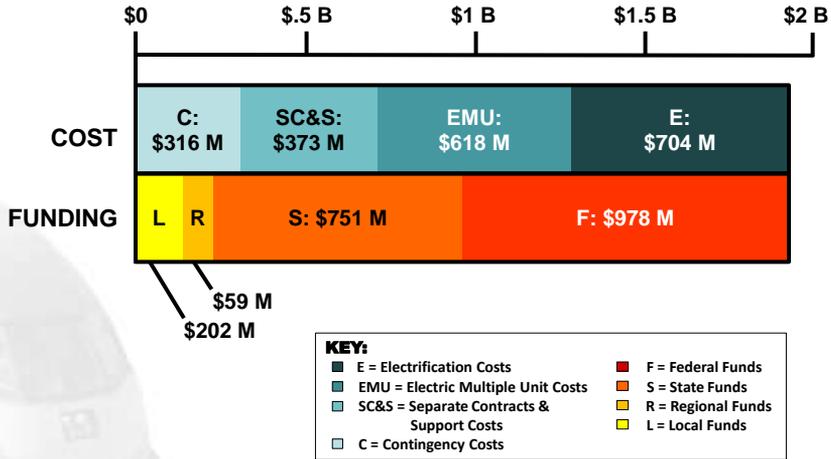
Funding Update

- Regional 7-party Supplemental MOU (May/June)
- State/CHSRA Agreement (June/July)
- Cap and Trade Grant Award (August)
- FTA Core Capacity Award (End of 2016)

10



Cost / Funding Sources



Note: 2016 bids with 20% contingency

11



Electric Train (EMU)

12

Public Feedback

- Sources
 - Rider Surveys in 2014, 2015, 2016 (~10,000 responses)
 - Public meetings (18)
 - Email, Website, Social Media
- Priority: #1 more seats, #2 more standing space
- Support for bathroom dips when capacity tradeoffs explained
- Majority desire at least one bathroom onboard (especially for special events and unexpected incidents)

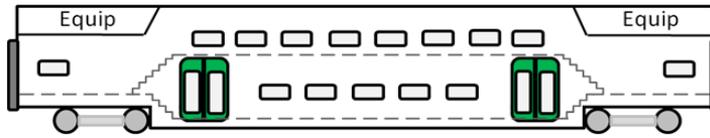
13

Electric Vehicle Considerations

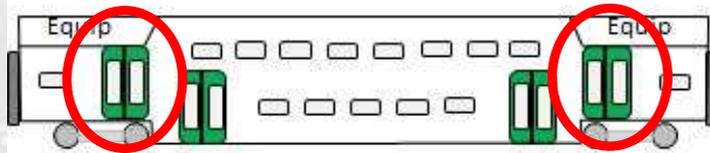
- Onboard Restroom
- Additional Doors
- Onboard Bicycle Space
 - Board commitment more station parking
- Public Feedback
 - Surveys 2014, 2015, 2016
 - Public meetings, email, website, social media

14

Additional Doors

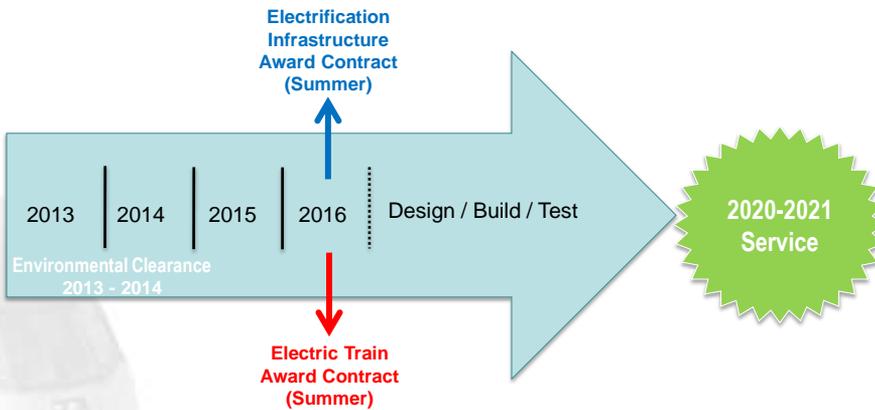


"Off the shelf" option. Low-level doors only.



Dual doors option. Initially, upper doors to be sealed, with seats in front.

Schedule Refinement



Note: Initial electric trains sets received in 2020 with final delivery in 2021



Questions

More CalMod Information
Website: www.caltrain.com/calmod
Email: calmod@caltrain.com
Phone: 650.508.6499