



Caltrain Modernization Program

- ~\$1.5 Billion
- Projects
 - Advanced Signal System (2015)
 - Corridor Electrification and Electric Multiple Units (2019)





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Caltrain

Project Description

- 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



CBOSS PTC 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

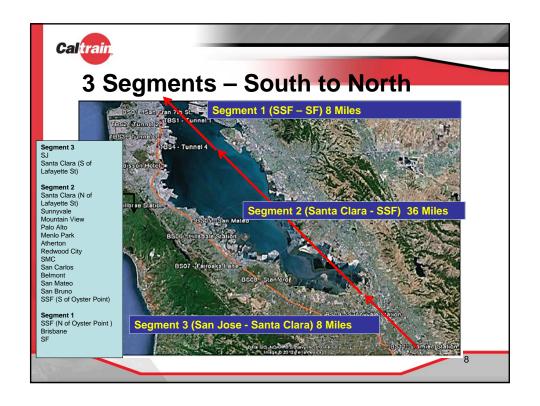
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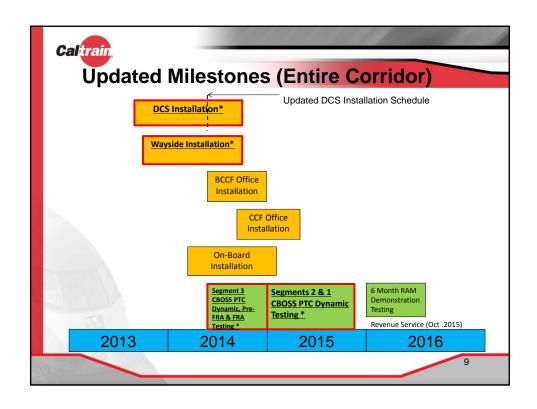
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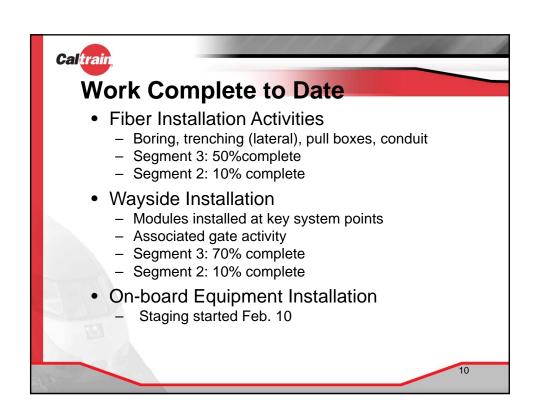
Project Total Cost and Milestones

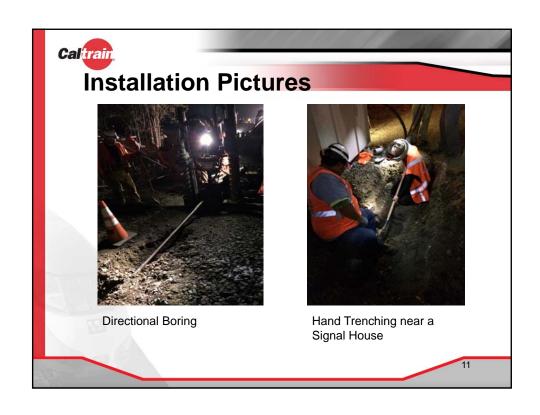
Description	Cost (in millions)	Milestones
Project Planning and Procurement	\$5	2010 - 2011
Phase 1 - Critical Design	\$25	2012 – 2013
Phase 2 - Final Design, Data Communications Subsystem & Fiber Backbone Installation	\$51	2013 – 2014
Phase 3 - Installation, Testing, Commissioning	\$150	2014 – 2016 (Revenue service Oct. 2015)
Total	\$231	











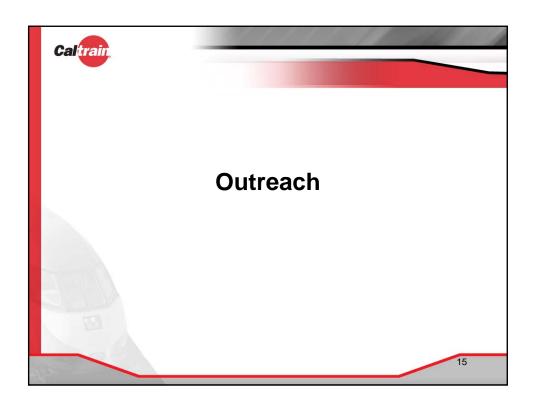




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Challenges

- · Construction on an active railroad
- Customized local processes
- · Maximizing productivity
 - Obstacles in boring path
 - Equipment damaged



Cal train

Outreach To Date

- Activities
 - CSCG (4 meetings)
 - LPMG (4 meetings)
 - One-on-one (each of the17 cities/3 counties)
 - Community Groups, as requested (8 meetings)
- Communication tailored to location
 - Direct mailers, flyers stations
 - Website, social media, email, phone
 - City/County Staff coordination

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Complaint Status (Over 6 months)

- Noise
 - 2 people
- Installation activities
 - Disturbed foliage on Caltrain ROW (apologized)
 - Mud tracked on side street (cleaned)
 - Grass damaged (repaired)

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Caltrain

Next Steps

- Activities
 - Community Groups Meetings (as requested)
- Communication
 - Addition direct mailer residents
 - Website, social media, email, phone
 - Separate installation and testing notices
- City/County Staff coordination

