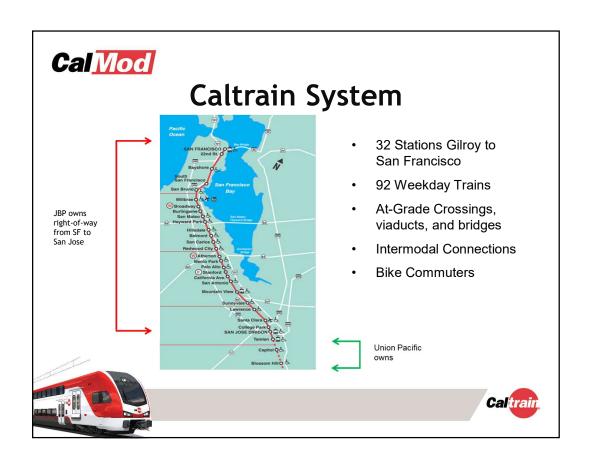


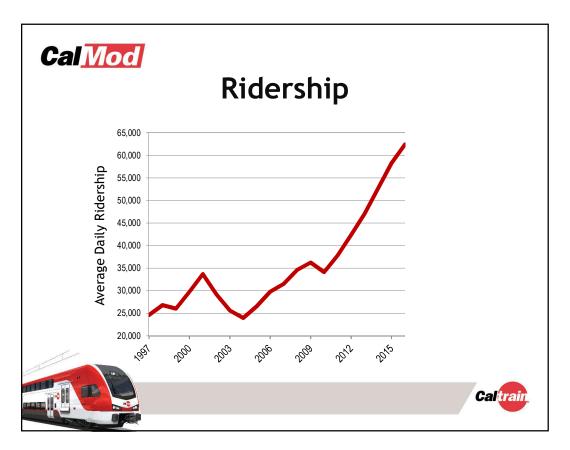


Agenda

- Project Overview Recap
- Project Update
 - Progression & Changes
 - Construction Activities
- Electrification Infrastructure
 - San Jose Activities
- Questions









At Capacity Today







Bi-directional commute with riders standing on trains going southbound and northbound





Aging Fleet

SERIES	QUANTITY	NUMBER OF SEATS	YEAR OF MANUFACTURE	MAKE	RETIRE DATE
Locamotives					
F40 PH-2	5	na	1985	GM - EMD	2015
F40PH-2-CAT	15	na	1985-1987	GM - EMD	2015-2017
F40 PH-2C	3	na	1998	Boise Locomotive	2028
MP36PH-3C	6	na	2003	Motive Power	2033
Passenger Cars					
Gallery Trailer	26	142	1985-1987	Nippon Sharyo	2015-2017
Gallery Trailer	16	148	1985-1987	Nippon Sharyo	2015-2017
Gallery Trailer	14	120	1999-2000	Nippon Sharyo	2030
Gallery Cab (Bike)	10	108	1985-1987	Nippon Sharyo	2015-2017
Gallery Cab (Bike)	6	78	1999-2000	Nippon Sharyo	2030
Gallery Cab (Bike)	21	97	1985	Nippon Sharyo	2015
Bi-Level Trailer*	16	149	1997	Bombardier	2027
Bi-Level Trailer	9	144	2002	Bombardier	2032
Bi-level Trailer (Bike)	2	114	2002	Bombardier	2032
Bi-level Trailer (Bike)	5	114	2001-2002	Bombardier	2031-2032
Bi-level Trailer (Bike)	2	114	2008	Bombardier	2038
Bi-level Trailer (Bike)	1	127	2002	Bombardier	2032
Bi-Level Trailer	6	140	2008	Bombardier	2038

*Trailers recently acquired from Metrolink with refurbishment ongoing.



Regional Transportation Needs

- US 101 and Interstate 280 Congested
- Corridor supports growing economy
- 75% Caltrain riders commute to work
- 60% are choice riders























Project Description

Area	Project	Service
an Francisco San Jose amien Station)	Electrification: Overhead Contact System (OCS) Traction Power Facilities Electric Trains (EMUs) 75 percent of fleet	Up to 79 mph Service Increase • 6 trains / hour / direction • More station stops / reduced travel time • Restore Atherton & Broadway service Mixed-fleet service (interim period) Continue tenant service • ACE, Capital Corridor, Amtrak, Freight



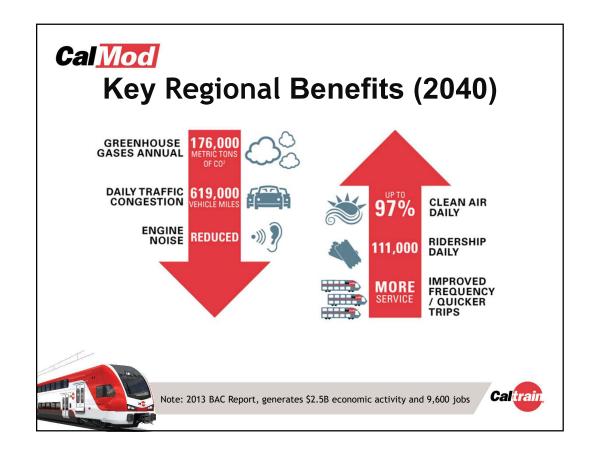
Service Benefits

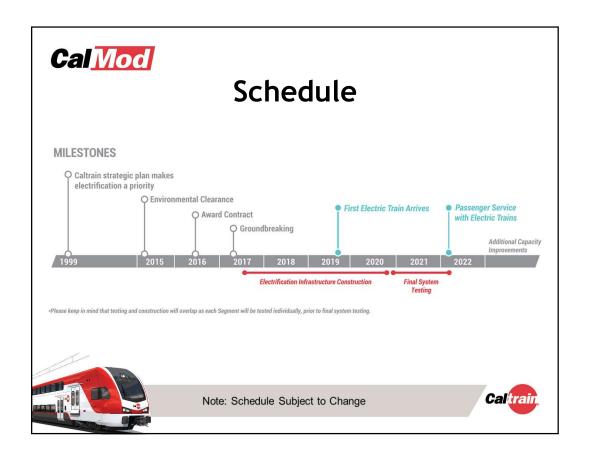
Metric	Today	PCEP				
Example Baby Bullet Train						
Retain 5-6 stops	60 minutes	45 minutes				
Retain SF to SJ 60 minutes	6 stops	13 stops				
Example Redwood City Station						
Train stops / peak hour	3	5				



Note: Prototypical Train and Schedule



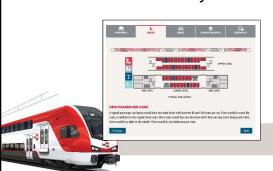




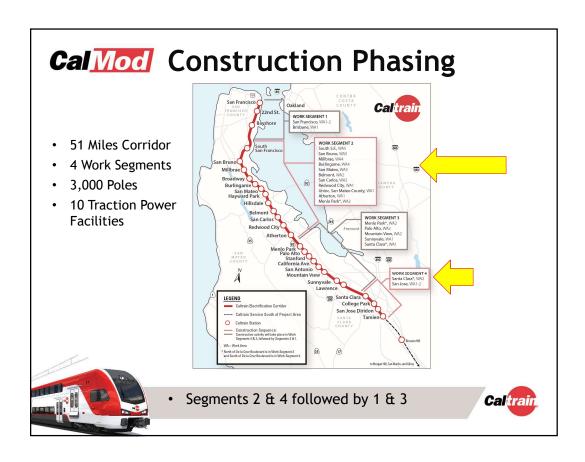


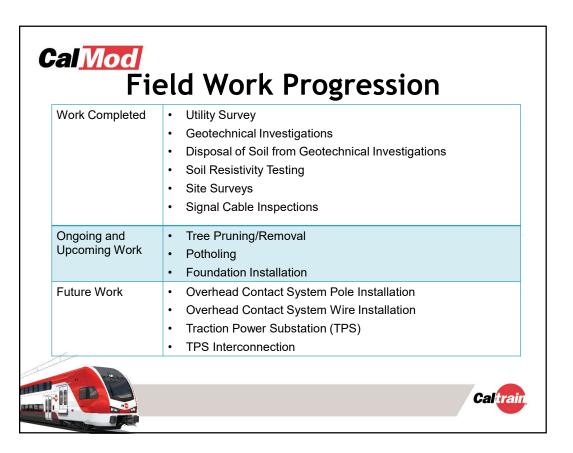
Electric Train

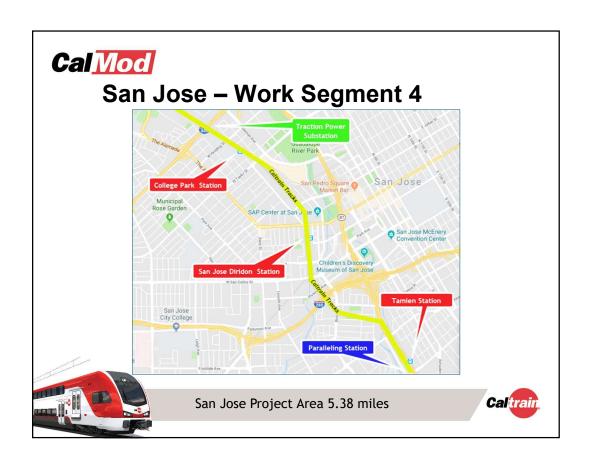
- 2016 Capacity Board Decision (bike to seat ratio, onboard bathrooms, upper doors 'not precluded')
- 2017 Design Progressing w/ Additional Public Input
 - Completed: Exterior design, Seat colors, Bike Storage, ADA restroom
- 2018 Virtual Reality 360 Tour













Future Construction Activities

San Jose

Date	Work Activity	Expected Duration*
Spring 2018	Foundation Installation	3-5 months
Summer 2018	Pole/Wire Installation	2-3 months
Spring 2018	Traction Power Station (North San Jose)	12 months
August 2018	TPS Interconnection	4-5 months



*Expected duration indicates first and last day of activity. Number of actual work days will be fewer.



Foundation Installation







On and Off Track Equipment



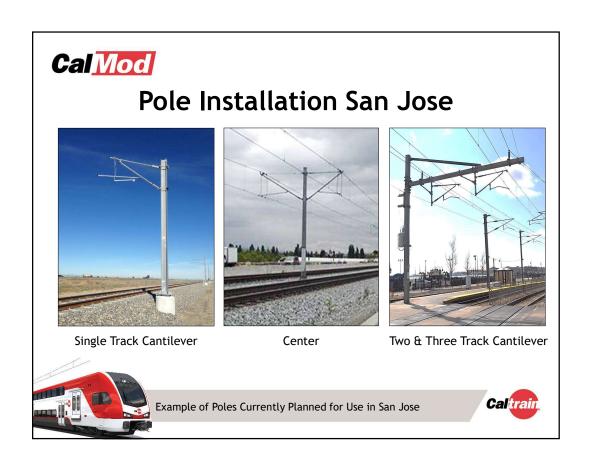


Pole Information

- 3,000 Installed throughout Corridor
 - 460 poles installed in San Jose
- San Jose Pole Types*
 - Single-Track Cantilever (30'-35' height)
 - Two-Track Cantilever (45.5' height)
 - Center Poles (30'-35' height)
 - Portals (35'-40' height)
 - Headspan (35'-40' height)
- Pole Spacing: ~180' apart
- Black poles at San Jose Stations



* Currently 95% Design







Stringing Wire







On-track Equipment

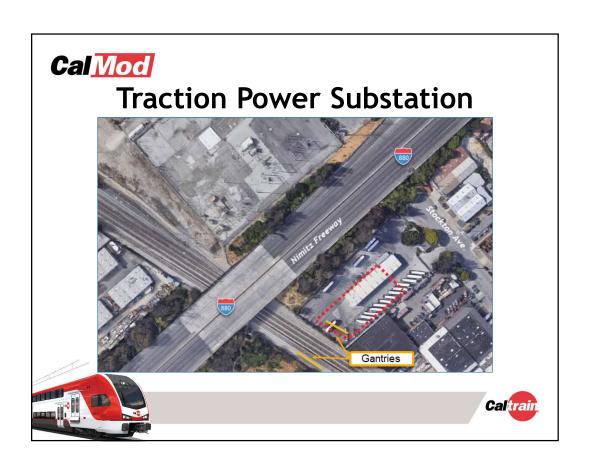


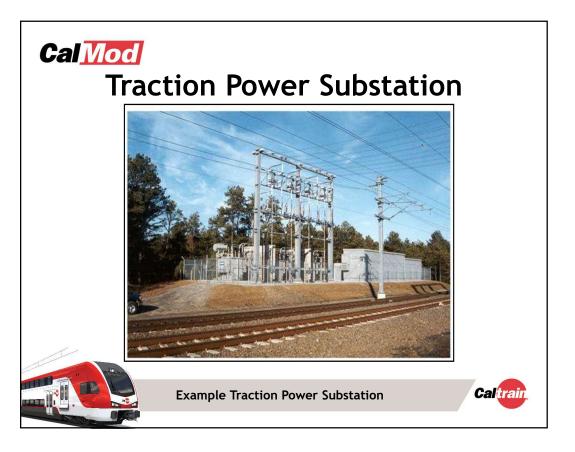
Cal Mod

Traction Power Substation

- 10 Traction Power Facilities Installed throughout Corridor
 - 1 Traction Power Substation installed in San Jose
 - 1 Paralleling Station in San Jose
 - 300 ft. x 143 ft. site footprint
 - Gantry structures up to 50'
- Provides electrical power to electric trains through the Overhead Contact System (OCS)
- · Unmanned station
- Day and weekend construction work 6:30am 5:00pm
- Limited night work during construction





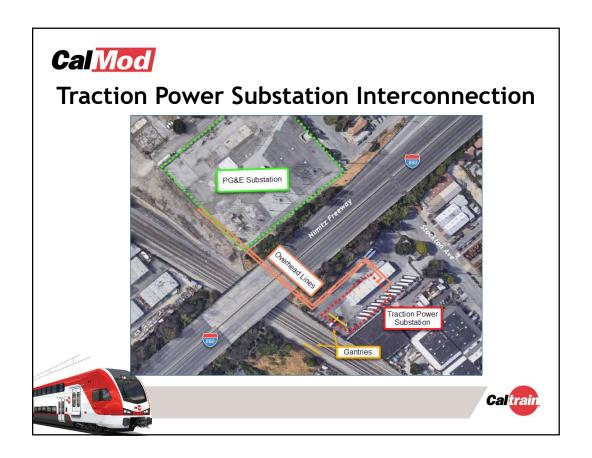


Traction Power Substation Interconnection

- · Overhead aerial transmission lines.
 - Will route from PG&E Substation south of Interstate 880
- Construction expected to be completed in 2019
- Tree pruning and removal may be required







Test Track Information

- Approximately 1.5 miles of existing track
- Located between Santa Clara Station and Caltrain CEMOF facility
- Foundations, poles and wires to be installed prior to electric train testing





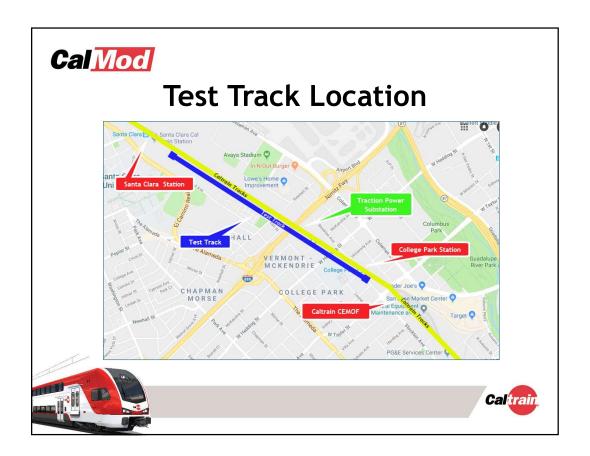
Cal Mod

Test Track Information

- New electric trains will be tested on track
- Testing to occur between Summer 2019 to Fall 2021
- Testing anticipated to be during daytime







CEMOF Modifications

- Service and Inspection Pit Extension
- Indoor Platforms for Pantograph Inspection
- Pantograph Camera
- Spare Parts Building
- Construction to begin Summer 2018





Overall Construction Impacts

- Daytime work and night work from 8 p.m.- 6 a.m.
- Some 24 hour weekend work
- Crews will utilize acoustical barrier blankets and position lights away from homes
- Dedicated hotline for construction complaints







Station Impacts

- Some trains will single track through work areas
- Platforms may be closed during these times
- Look up and listen for station announcements for the latest information



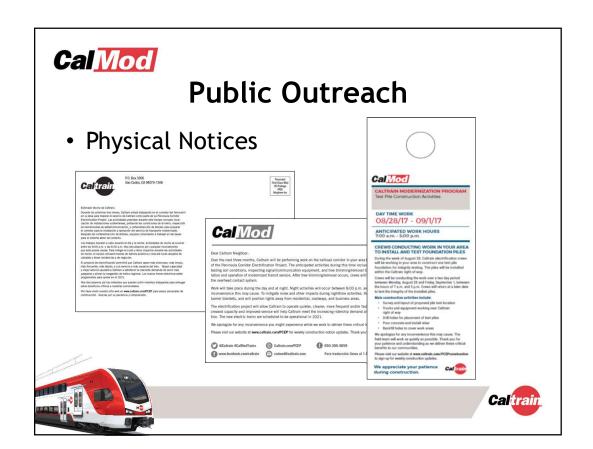




Public Outreach

- Subscribe to Weekly Updates
 - Visit www.calmod.org/get-involved
- Additional Community Meetings
 - Pole and Wire Installation
 - Traction Power Interconnection
 - CEMOF Modifications
 - EMU Testing
- Social Media
- Construction Outreach Office







Construction Contact Information

Email: calmod@caltrain.com
Phone: 650.399.9659
Toll Free: 800.660.4287

2121 S. El Camino Real, Suite A-100 San Mateo, CA 94403 9 a.m. - 5 p.m. Monday - Friday

www.calmod.org



