

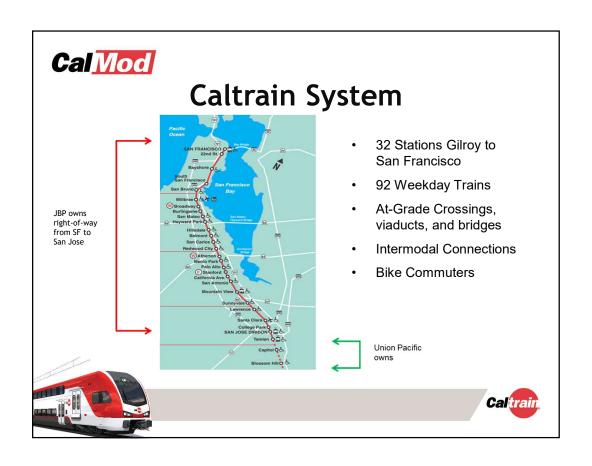


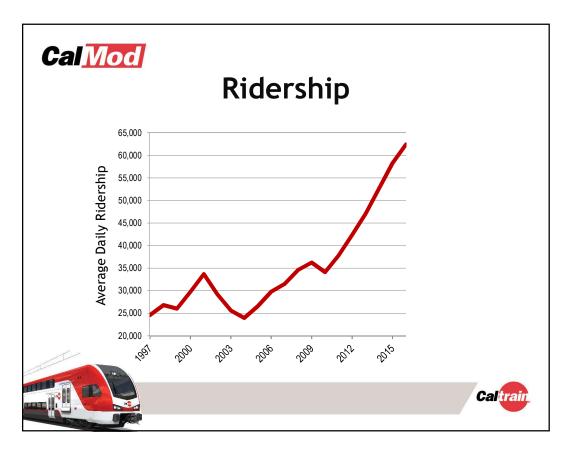
Agenda

- Caltrain System Overview
- Project Overview
- Electric Train Design
- San Jose Construction Activities
- Questions



Caltrain







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























(EMUs) • 75 percent of fleet Mixed-fleet service (interim period) Continue tenant service • ACE, Capital Corridor, Amtrak, Freight



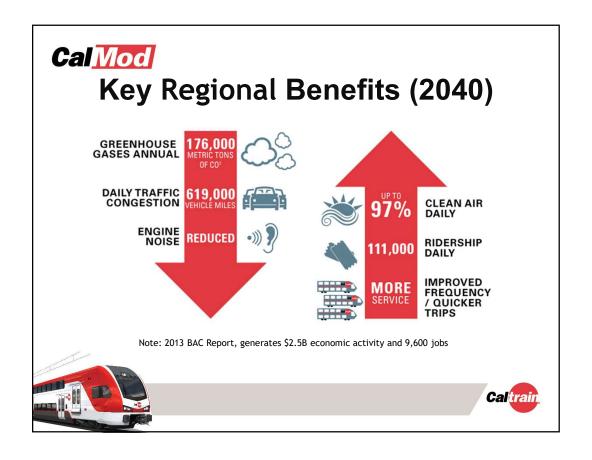
Service Benefits

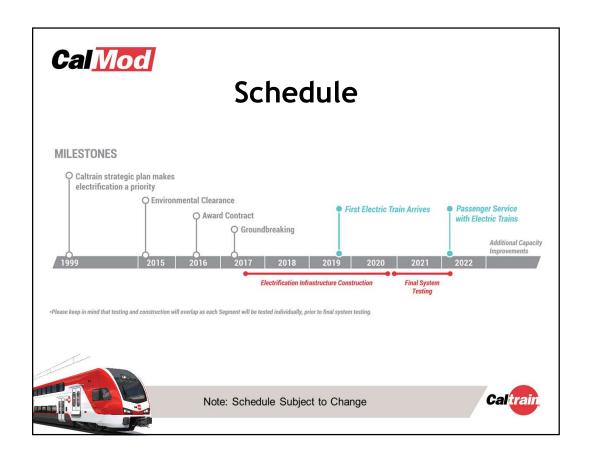
Metric	Today	PCEP				
Example Baby Bullet Train						
Retain 5-6 stops	60 minutes	45 minutes				
Retain SF to SJ 60 minutes	6 stops	13 stops				
Example Redwood City Station						
Train stops / peak hour	3	5				



Note: Prototypical Train and Schedule









Cal Mod

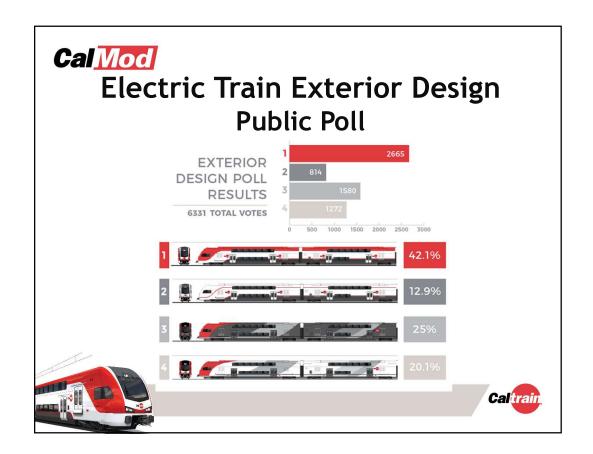
Electric Train

- 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

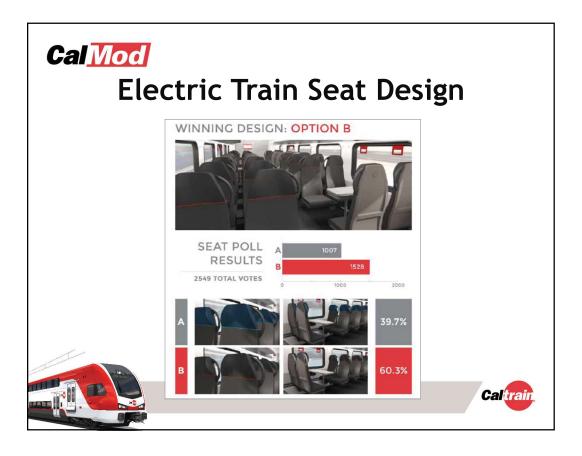




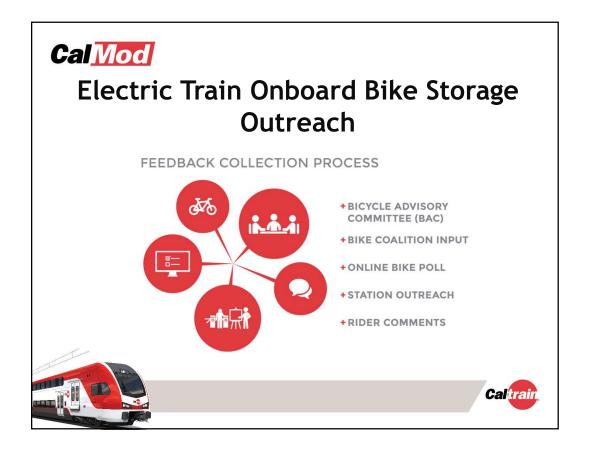












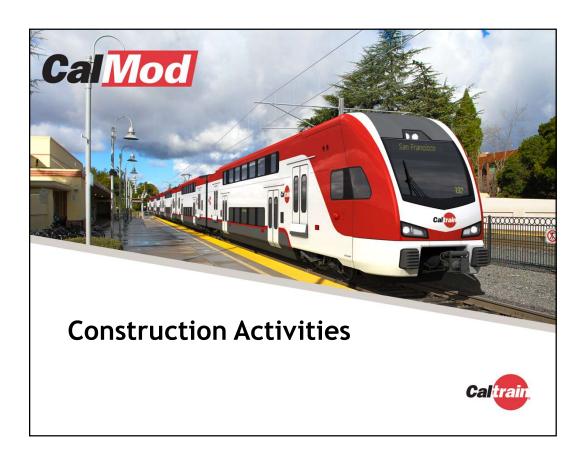
Cal Mod Electric Train Onboard Bike Storage Design

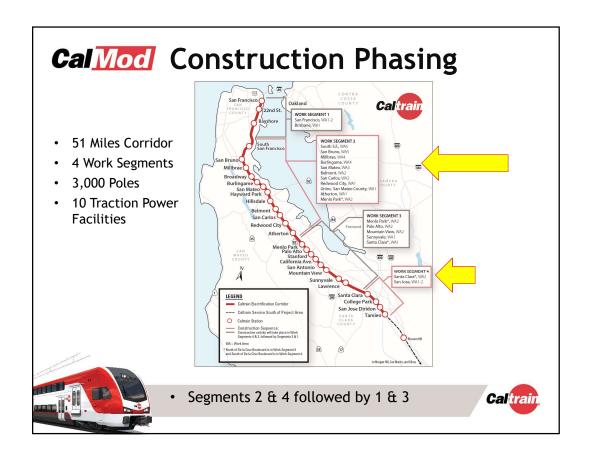


- · Maximizes capacity
- Accommodates variety of bike types
- Recommended by:
 - Bicycle Advisory Committee
 - Bike Coalitions (SF and Silicon Valley)

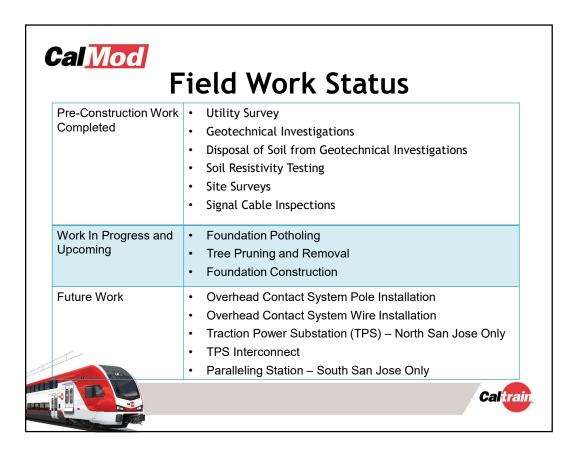


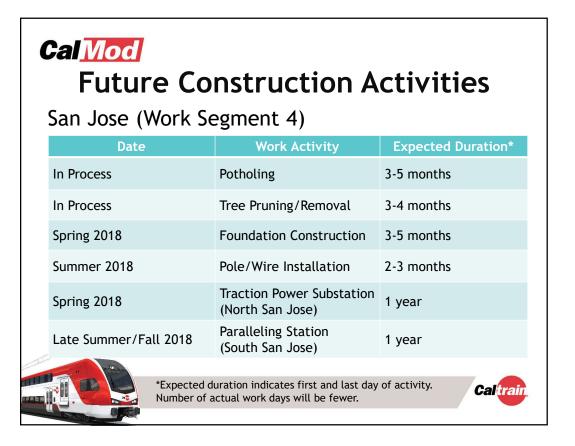














Potholing











Cal Mod

Foundation Construction

- Excavation
- · Rebar and Anchor Installation
- Electrical Grounding
- Concrete Fill







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

Cal train







Stringing Wire







On-track Equipment



Cal Mod

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



Cal train

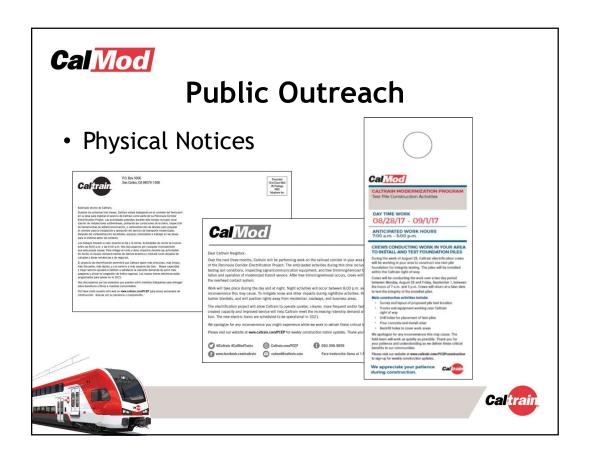


Public Outreach

- Subscribe to Weekly Updates
 - Visit www.calmod.org/get-involved
- Additional Community Meetings
 - Pole and Wire Installation
- Social Media
- Construction Outreach Office



Caltrain





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