

## CalMod Local Policy Maker Group (LPMG)

Thursday, September 25, 2014 6:00 PM – 7:30 PM SamTrans Offices - Bacciocco Auditorium 2<sup>nd</sup> Floor 1250 San Carlos Ave., San Carlos

## Agenda

- 1. JPB Staff Report
- 2. Information/Discussion
  - a. EMU Procurement (Attachment A)
  - b. CBOSS PTC Program Update (Attachment B)
- 3. Public Comments
- 4. LMPG Member Comments/Requests
- 5. Next Meeting E-Update: October 23, 2014 In-person: November 20, 2014 at 6:00pm



## Memorandum

Date: September 25, 2014

To: CalMod Local Policy Maker Group (LPMG)

From: Marian Lee, CalMod Executive Officer

Re: Electric Multiple Unit (EMU) Procurement Process

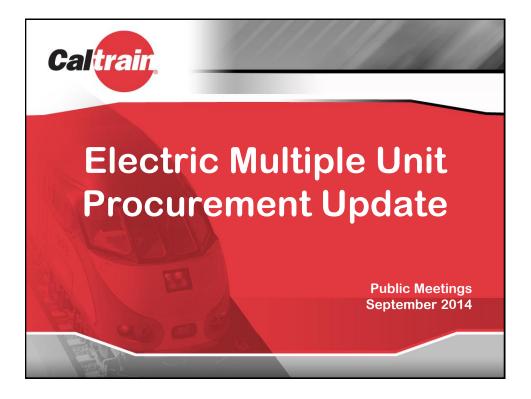
At the August JPB meeting, CalMod staff provided an update on the Electric Multiple Unit (EMU) procurement process and shared information learned from the Request for Information (RFI) meetings, which were completed in June. The LPMG will receive a similar presentation, which is attached.

The RFI is a critical step in the procurement process and provides up-to-date information about the EMU industry. With this information, staff can begin to more clearly understand the availability of "off-the-shelf" EMUs that can be best utilized for electrified Caltrain service.

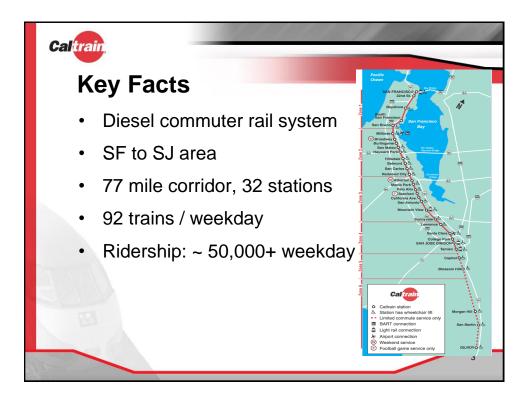
There are two phases of public outreach related to the design of the EMUs. The first phase, which kicked-off at the August Board meeting, involves soliciting input on key structural and capacity elements such as bathrooms, seats and standees, and bike capacity. Public feedback during the Phase I outreach will be coupled with technical analysis to inform staff recommendations to the Board for the EMU Request for Proposal, scheduled to be released in early 2015.

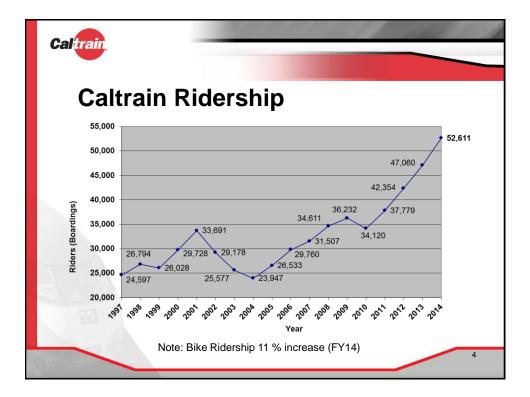
The project website: <u>www.caltrain.com/emu</u> provides additional information about the Phase I outreach efforts, including the online survey: <u>www.caltrain.com/emusurvey</u>

Phase two of the public outreach will occur after the car builder has been selected. Phase two will focus on interior design, configuration and aesthetics.



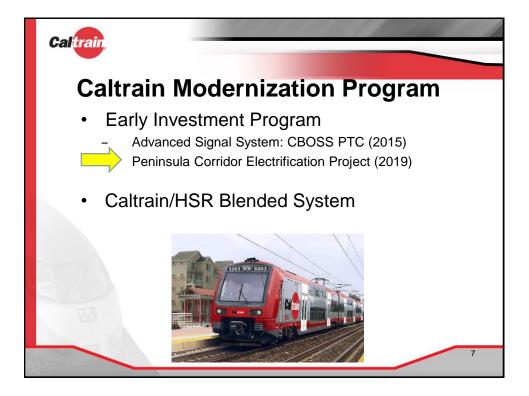




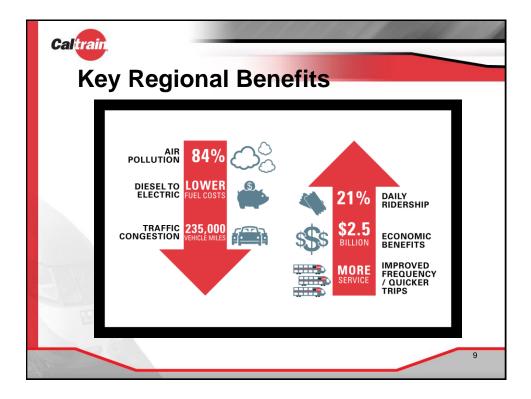


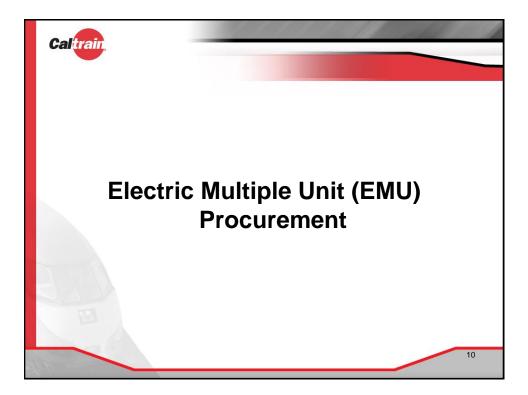
Train						S	outhbound
lumber	Depart SJ	Max Load	Percent of Seated Capacity	Train Number	Depart SF	Max	Percent of Seated Capacity
100000000000000000000000000000000000000	7:03 AM	796	123%	376	5:33 PM	813	125%
	7:45 AM	746	115%	370	5:14 PM	706	109%
	8:03 AM	738	114%	366	4:33 PM	690	106%
127.17	5:23 PM	689	106%	268	4:56 PM	670	103%
	6:57 AM	675	104%	278	5:56 PM	648	100%
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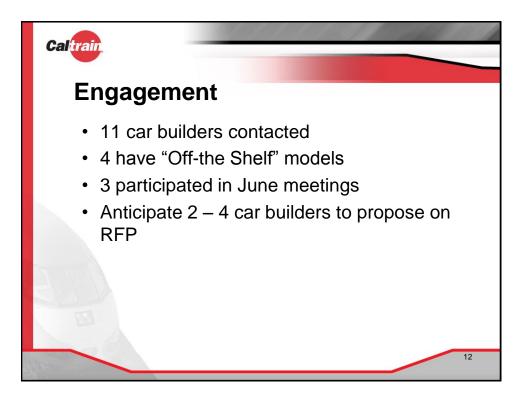


PCEP	Project Des	scription*
Area	Project	Service
51+ miles San Francisco to San Jose (Tamien Station)	<ul> <li>Electrification:</li> <li>Overhead Contact System (OCS)</li> <li>Traction Power Facilities</li> <li>Electric Multiple Units (EMUs)</li> </ul>	<ul> <li>Up to 79 mph</li> <li>Service Increase</li> <li>6 trains / hour / direction</li> <li>More station stops / reduced travel time</li> <li>Restore Atherton &amp; Broadway service</li> <li>Mixed-fleet service (interim period)</li> <li>Cont. tenant service</li> </ul>

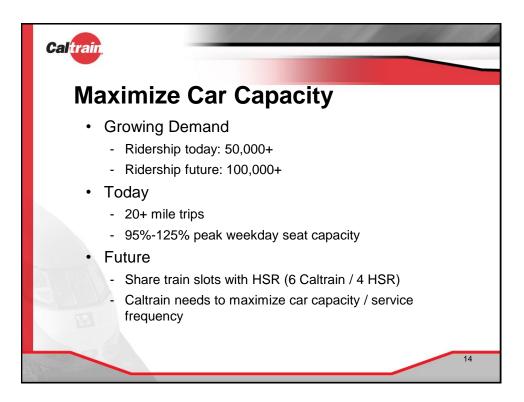




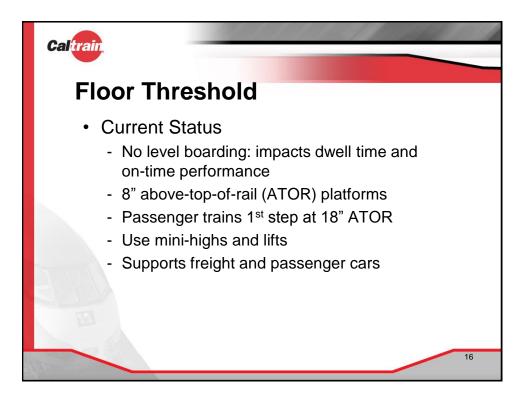
C	al <mark>train</mark> ,		1
	Status		
	April 2014	JPB update on EMU procurement process	
	May 2014	<ul> <li>RFI issued</li> <li>Q &amp; A to support stakeholder dialogue</li> <li>Inform RFP (early 2015)</li> </ul>	
B	June 2014*	Industry responses / meetings with car builders	
	*	First industry scan conducted 2008 11	

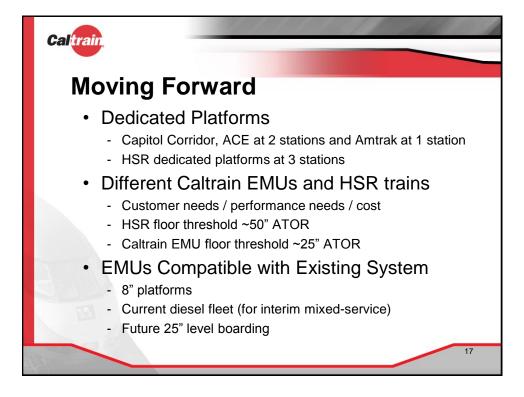


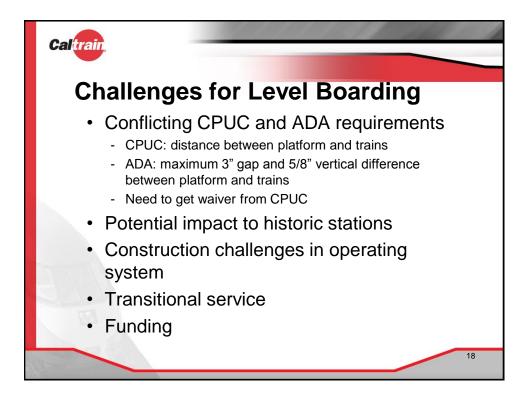




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Industry Co	nfirmation
Maximize Capacity	Bi-level (verse single level)
"Off the Shelf" Available	Service proven Saves costs / time
US Regulation Compliance	ADA Buy America FRA Waiver / Alternative Compliant Vehicles Criteria Will meet Caltrain Technical and Quality Standards
Floor Threshold	22" – 24" most common
	15







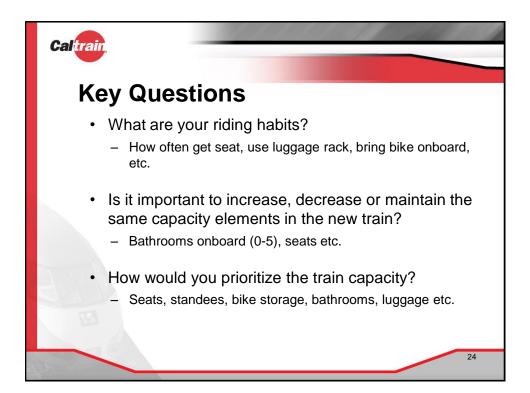


Cal	outreach – 2 Pha	ases
	Phase I (Inform RFP)	Phase II (Inform Selected Builder)
	Shell: Structural Size / Capacity	Interior: Aesthetic / Comfort
	Seats / Standees	Seat size / Spacing
	Bikes on Board	Internal Material
	Bathrooms	External Color / Branding
		Bikes on Board Configurations
		Passenger Amenities

	Current		EMU		Considerations
•	620 - 680 seats per train	•	Seat size /	•	Seat widths
•	Limited standing room on gallery cars		configuration flexibility		Space between seat
		•	Handholds /	•	Seat orientation
•	One gallery car per train ADA accessible		leaning benches for standees		Balance with other amenities
•	Lifts for bombardier cars	•	Full ADA		
			accessibility	•	Loading standard changes

<i>Caltra</i>	Bikes on Boa	rd	
	Current	EMU	Considerations
	<ul> <li>2 of 5 cars hold bikes</li> <li>48 bikes per bombardier train</li> <li>80 bikes per gallery train</li> <li>Bike riders and other passengers sit in bike cars</li> <li>Displaces 2 seats</li> </ul>	<ul> <li>Concepts vary by car builder</li> <li>Car builders can design areas based on current bike capacity</li> </ul>	<ul> <li>Balance seats and bikes on board</li> <li>Wayside facilities</li> <li>Need to comply with safety and ADA requirements</li> </ul>
			22

Current	EMU	Considerations
<ul> <li>2 per gallery train</li> <li>5 per bombardier train</li> <li>Annual maintenance costs</li> <li>Displaces 8+ seats</li> </ul>	<ul> <li>Modular bathroom units available</li> <li>Compliant with ADA requirements</li> </ul>	<ul> <li>Public bathrooms at 2 of 27 stations</li> <li>Average trip 20 to 28 miles</li> <li>Average trip 30 to 50 minutes</li> </ul>



Caltrain			7/			1	A			
	Survey: altrain.com	n/em	IL	ISI		'Ve	ey			
	Caltrain New Electric Train Stu *24, Piease rank the following feat Caltrain riding expressioned: 1 = Most I & training riding and subject. I statistic & training riding conclusion wave. I statistic & upggage storage (stopper: a statistic)	ures (1 to 5) in the or mportant. nderoccupies 1 seat)	rder	that is mo	st imp	ortant to	your			
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EMU Input N	Ailest	one	ŝ			
	2014 Spring	2014 Summer	2014 Fall	2014/15 Winter	2015	2016
Issue RFI						
Meetings with Builders						
Phase I Outreach						
Develop / Issue RFP						
Select Car Builder						
Phase II Outreach						
Phase II Outreach						





## Memorandum

Date: September 25, 2014

To: CalMod Local Policy Maker Group (LPMG)

From: Marian Lee, CalMod Executive Officer

Re: Advanced Signal System (CBOSS PTC) Project Update

The Advanced Signal System project, also called Communications Based Overlay Signal System (CBOSS) Positive Train Control (PTC), is being installed along the Caltrain corridor. Installation of the communications subsystem started on September 4, 2013 in San Jose and has continued north.

Earlier this month, the CBOSS PTC team reached a key milestone by completing 100 percent of the installation work related to the Data Communications System (conduit and fiber optic cable) and wayside infrastructure between San Jose and the Dumbarton Spur in Redwood City. The next phase for this section of the corridor will involve testing the system to prepare for the FRA visit.

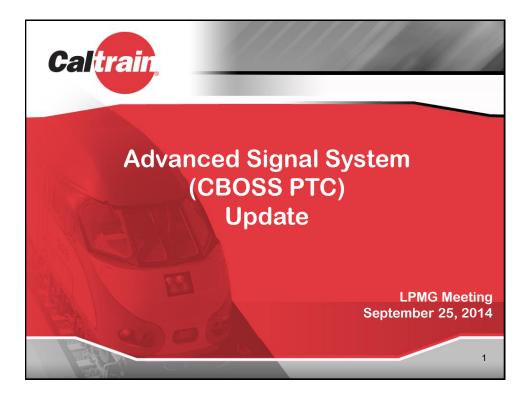
North of the Dumbarton Spur, work has commenced on the DCS and wayside infrastructure installation in the cities of San Carlos, Belmont and San Mateo. In the coming weeks and months work will continue north.

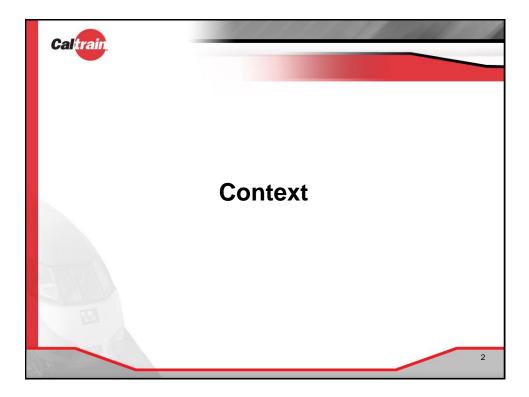
The on-board installation of CBOSS PTC equipment on the trains continues to be on schedule and 6 of the 8 pilot trains have the CBOSS PTC equipment installed.

The CBOSS PTC field crew has over 200,000 hours of work with no incidents.

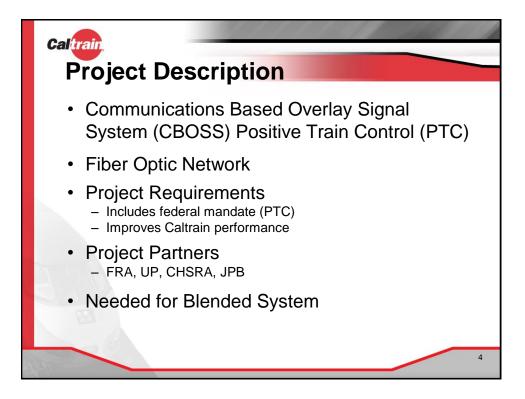
Caltrain staff will continue to coordinate with city/county staff on construction and testing activities. There were no new complaints from residents since the August e-update.

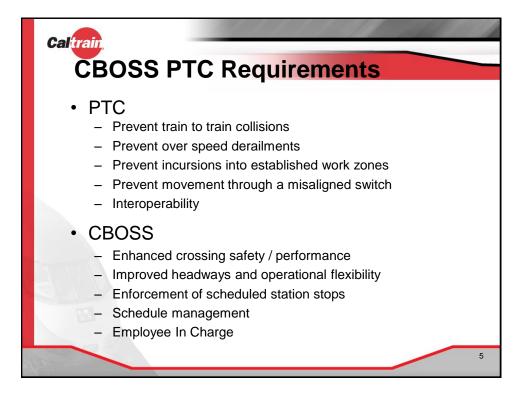
The attached presentation provides an overview the project's process. This will be the LPMG's fifth presentation on the Advanced Signal System project, the last presentation was in March 2014.











Project Total Co	ost and N	lilestone
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 /4 - Installation, Testing, Commissioning	\$150	2014 – 2016 (Revenue service Oct. 2015)
Total	\$231	
Total	\$231	



