

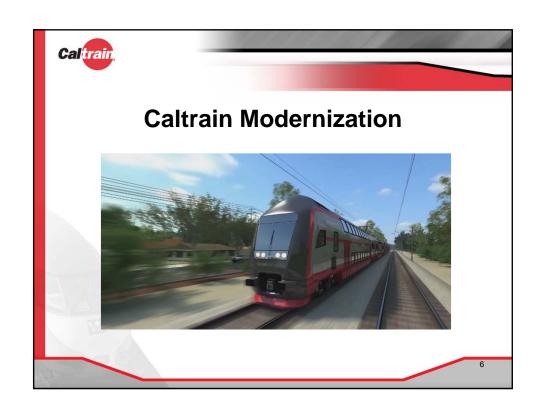


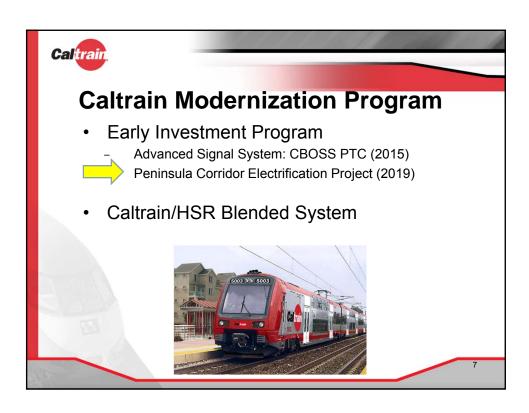
		Northbound			
Train Number	Depart SJ	Max Load	Percent of Seated Capacity		
319	7:03 AM	796	123%		
323	7:45 AM	746	115%		
329	8:03 AM	738	114%		
375	5:23 PM	689	106%		
217	6:57 AM	675	104%		
225	7:50 AM	674	104%		
233	8:40 AM	641	99%		
313	6:45 AM	632	97%		

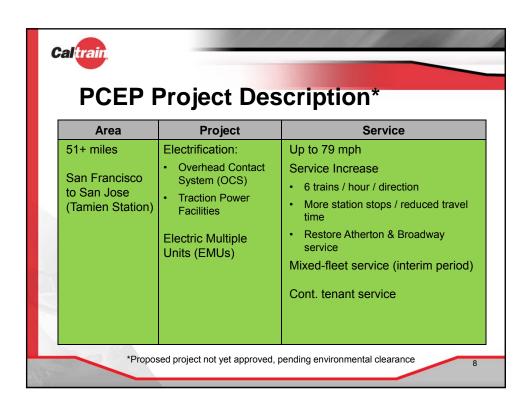
		Southbound			
Train Number	Depart SF	Max Load	Percent of Seated Capacity		
376	5:33 PM	813	125%		
370	5:14 PM	706	109%		
366	4:33 PM	690	106%		
268	4:56 PM	670	103%		
278	5:56 PM	648	100%		
324	8:14 AM	622	96%		
322	7:57 AM	622	96%		

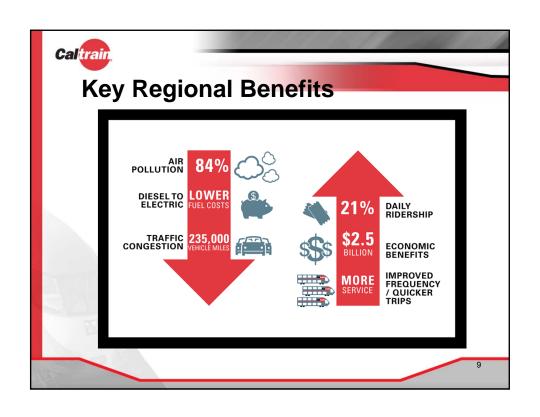
Note: February 2014 counts (lower ridership season)

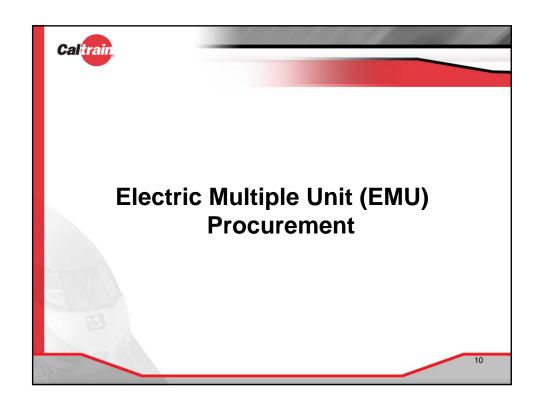
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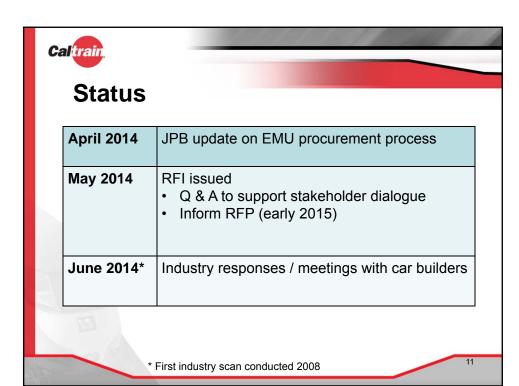












Caltrain

Engagement

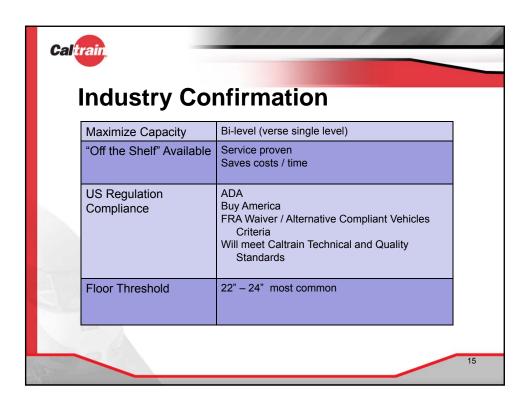
- 11 car builders contacted
- 4 have "Off-the Shelf" models
- 3 participated in June meetings
- Anticipate 2 4 car builders to propose on RFP



Caltrain

Maximize Car Capacity

- · Growing Demand
 - Ridership today: 50,000+
 - Ridership future: 100,000+
- Today
 - 20+ mile trips
 - 95%-125% peak weekday seat capacity
- Future
 - Share train slots with HSR (6 Caltrain / 4 HSR)
 - Caltrain needs to maximize car capacity / service frequency



Caltrain

Floor Threshold

- Current Status
 - No level boarding: impacts dwell time and on-time performance
 - 8" above-top-of-rail (ATOR) platforms
 - Passenger trains 1st step at 18" ATOR
 - Use mini-highs and lifts
 - Supports freight and passenger cars



Moving Forward

- Dedicated Platforms
 - Capitol Corridor, ACE at 2 stations and Amtrak at 1 station
 - HSR dedicated platforms at 3 stations
- Different Caltrain EMUs and HSR trains
 - Customer needs / performance needs / cost
 - HSR floor threshold ~50" ATOR
 - Caltrain EMU floor threshold ~25" ATOR
- EMUs Compatible with Existing System
 - 8" platforms
 - Current diesel fleet (for interim mixed-service)
 - Future 25" level boarding

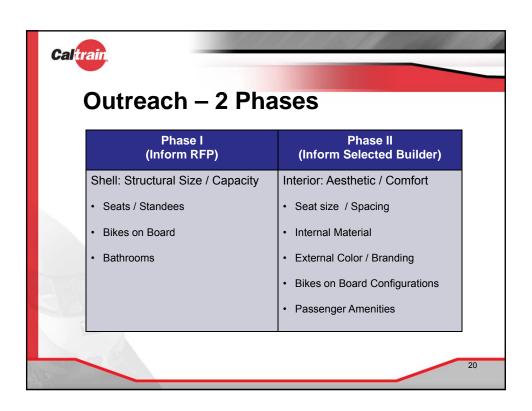
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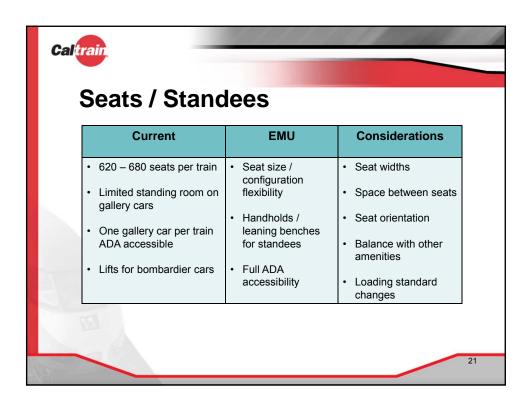


Challenges for Level Boarding

- · Conflicting CPUC and ADA requirements
 - CPUC: distance between platform and trains
 - ADA: maximum 3" gap and 5/8" vertical difference between platform and trains
 - Need to get waiver from CPUC
- Potential impact to historic stations
- Construction challenges in operating system
- Transitional service
- Funding







Caltrain **Bikes on Board EMU** Considerations Current · 2 of 5 cars hold bikes Concepts vary by Balance seats and car builder bikes on board · 48 bikes per bombardier Car builders can Wayside facilities train design areas based 80 bikes per gallery train on current bike Need to comply with capacity safety and ADA Bike riders and other requirements passengers sit in bike cars · Displaces 2 seats



Bathrooms

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

Other systems: ACE 1 bathroom per car

Capitol Corridor 1 – 2 bathrooms per car

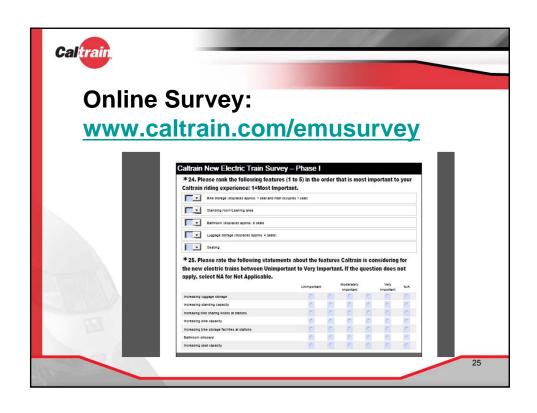
BART 0 bathrooms per car

23



Key Questions

- · What are your riding habits?
 - How often get seat, use luggage rack, bring bike onboard, etc.
- Is it important to increase, decrease or maintain the same capacity elements in the new train?
 - Bathrooms onboard (0-5), seats etc.
- How would you prioritize the train capacity?
 - Seats, standees, bike storage, bathrooms, luggage etc.





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Activity	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						

