





#### **Key Facts**

- Diesel commuter rail system
- San Francisco to Gilroy
- 77 mile corridor, 32 stations
- 92 trains on weekday / 36 Saturday / 32 Sunday
- Ridership: 50,000+ weekday

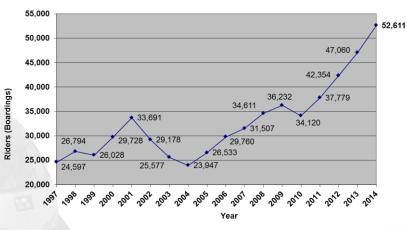




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## Caltrain

## **Caltrain Ridership**



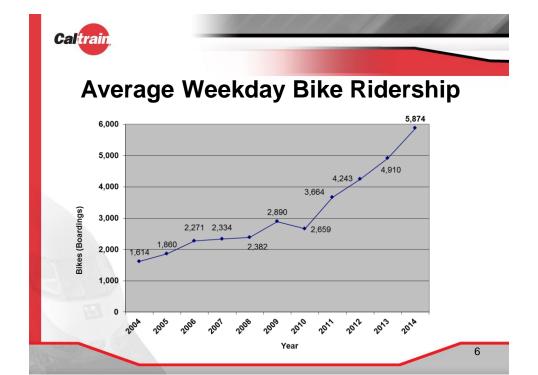


# **2014 Top Ridership Trains**

		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%	

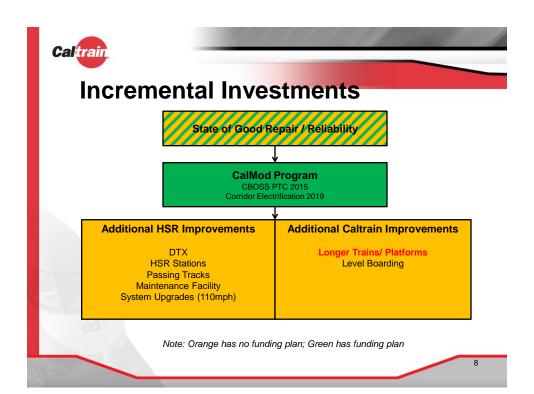
Note: February 2014 counts (lower ridership season)





#### **Bikes on Board Program**

- · Bike bumps significantly reduced
- 2004
  - 16 to 32 bikes per train, 1-2 bike cars
- 2009
  - 40 to 80 bikes per train, 1-2 bike cars
- 2011
  - 48 to 80 bikes per train, 2 bike cars





## **Service / Capacity Improvements**

State of Good Repair/ Reliability	CBOSS PTC Corridor Electrification EMUs	Additional Improvements	Ridership Demand Forecast (PCEP DEIR 2014)
Foundation	<ul> <li>Closer headways</li> <li>10 slots ph/pd</li> <li>6 Caltrain trains ph/pd*</li> <li>More station stops and/or reduced travel time</li> </ul>	More seats     Shorter dwells at stations	• Today: ~50,000 • 2020: 69,000 • 2040: 111,000

<sup>\*</sup> Note: 4 slots for high-speed rail

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#### **PCEP Ridership Projections**

- Demand driven approach
- Tool: VTA model (systemwide projections)
- Key model inputs:
  - 2013 ABAG projections
  - MTC Regional Transportation Plan
  - Prototypical schedules (PCEP DEIR 2014)



# Longer Trains / Platforms Considerations

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## **Program Concept**

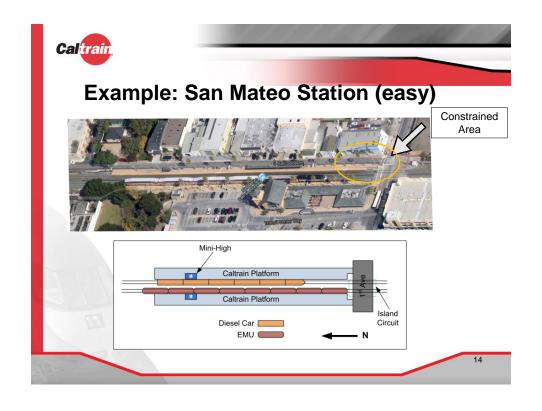
- Lengthen EMUs from 6 to 8 car trains
  - Increase seat capacity by ~33%
  - Provides comfort for 20 30 mile trips
- Platforms need 700 ft.
  - 18 / 27 PCEP stations need extension
  - Challenging at 12 stations (i.e. vehicle and/or pedestrian crossing, holdout)

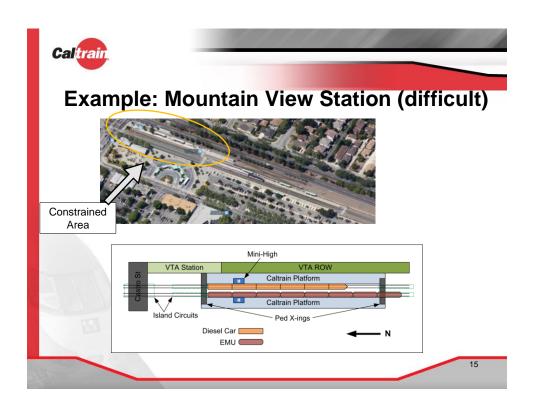


No Extension Needed	Extension Needed	Extension Needed + Difficult
4th and King	Belmont	22 <sup>nd</sup> Street*
Bayshore	California Ave	Atherton*
Diridon	San Antonio	Broadway*
Lawrence	San Carlos	Burlingame
Millbrae	San Mateo	College Park*
Palo Alto	Santa Clara (SB)	Hayward Park
San Bruno		Hillsdale
Santa Clara (NB)		Menlo Park
Stanford		Mountain View
Tamien		Redwood City
		South San Francisco*
		Sunnyvale

\* Additional Improvements Hold-Out or ADA

Top 10 highest ridership station







#### **Rough Cost Estimates**

- Vehicle
  - Addition to 96 EMUs for electrification
  - Full EMU Conversion (42 EMUs): \$210m
  - 8-Car EMUs (~46 EMUs): \$230m
- Platform Extension
  - \$1m \$2m / station
  - Assume limited modifications within ROW
  - Does not include cost for level boarding

