

# Caltrain Bike Parking Management Plan Update

**Bicycle Advisory Committee** 

January 19, 2017

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#### **Overview**

- Background and Purpose
- Update on Summer and Fall 2016 Activities
- Next Steps





#### **Context for Project**

- Capacity and Access Issues
- Forthcoming Caltrain Electrification Project
- Growing Bike-Based Trips





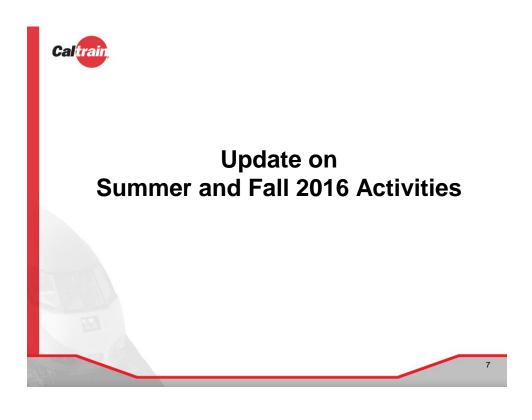
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## **Key Questions**

- What is the market for bike parking at Caltrain?
  - What will the future demand for bike-based trips to Caltrain be?
  - What mix of bike parking will best serve Caltrain customers?
  - Which customers will always choose to bring their bike on board vs. which ones might choose to park a bike if better facilities were available?







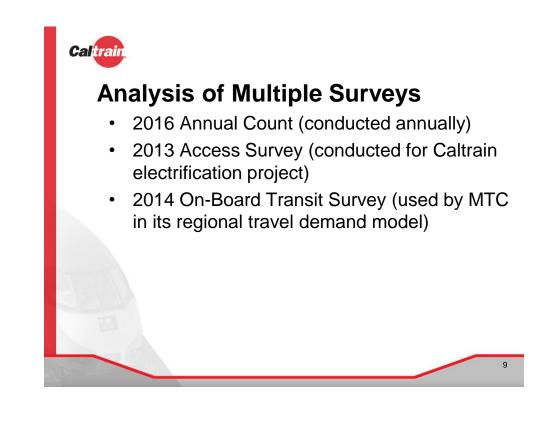
#### **Overview of Summer/Fall Activities**

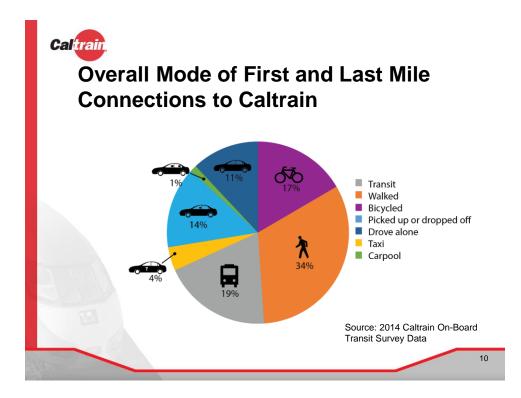
- Outreach
  - Website with comment form
  - BAC Subcommittee for surveys
- Data Collection
  - Analysis of data from various surveys
  - Bike rack occupancy survey
  - Keyed locker utilization survey

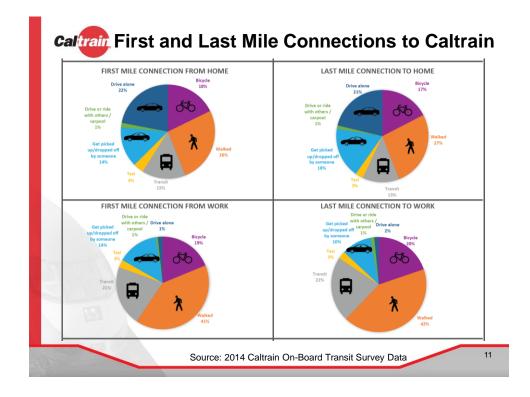
#### Customer Outreach

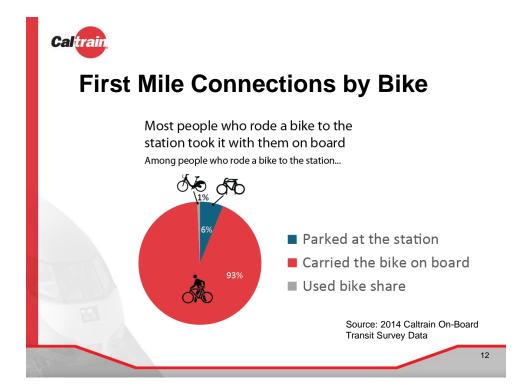
- On-board intercept survey
- Online survey
- Focus groups

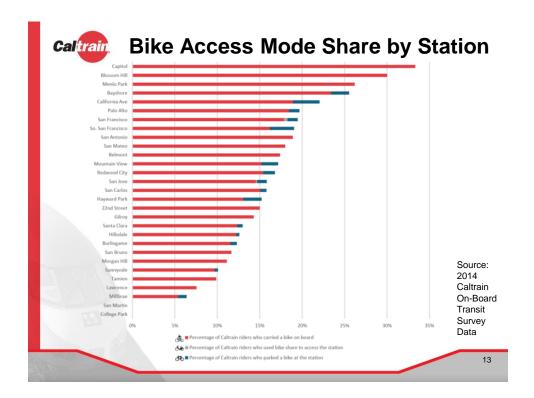
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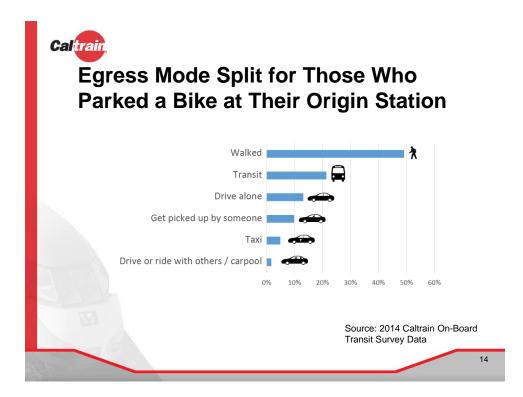


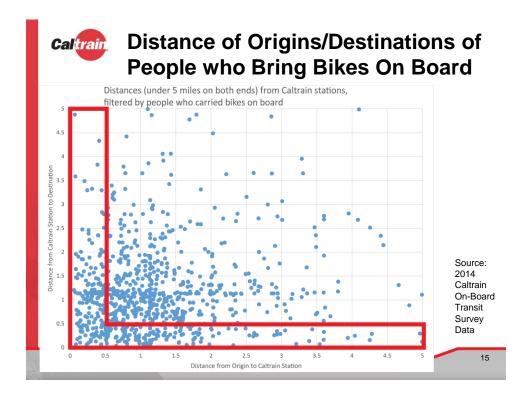












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#### **Caltrain Bike Rack Occupancy Survey**

#### Average Bike Rack Occupancy Rate

Station	Capacity	Average Occupancy
		Rate (over 3 days)
San Carlos	40	23%
Redwood City	20	73%
Palo Alto	184	53%
Mountain View	26	83%
San Jose Diridon	10	57%
TOTAL	280	53%

Notes:

1. Bike racks constitute about 30% of Caltrain's total bike parking supply.

2. Surveyed between 10am - 1pm on 11/1/16, 11/2/16, and 11/4/16.

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# Caltrain Keyed Bike Locker Utilization Survey

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Station	Keyed	Rented	Average Utilization
	Lockers	Lockers	Rate (over 5 days)
San Francisco	180	159	18%
San Carlos	36	34	12%
Mountain View	116	104	15%
Total	332	297	14%

#### Average Keyed Bike Locker Utilization Rate

Notes:

- Keyed bike lockers constitute about 50% of Caltrain's total bike parking supply.
- 2. Surveyed each evening on 11/14/16 11/18/16.



# Caltrain Keyed Bike Locker Utilization Survey

#### Breakdown of Weekly Individual Locker Usage

Days	San	San	Mountain	Overall
Used	Francisco	Carlos	View	
0	65%	71%	72%	68%
1	111%	12%	6%	9%
2	9%	9%	11%	9%
3	4%	6%	4%	4%
4	3%	3%	3%	3%
5	7%	0%	5%	5%

#### Notes:

1. Keyed bike lockers constitute about 50% of Caltrain's total bike parking

supply.

2. Surveyed each evening on 11/14/16 – 11/18/16.



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#### **E-Locker Utilization at Caltrain Stations**

Station	Number of	BikeLink Cards	Approximate
	Lockers	per Locker per	Rentals Per
		Year	Month
Millbrae	24	TBD	TBD
San Mateo	12	8.58	150-200
Hayward Park	4	3.25	6
Hillsdale	12	8.92	100-150
Sunnyvale	4	26.75	45-60

#### E-Locker Utilization for 2016

Notes:

- 1. Electronic bicycle lockers are reserved on-demand, on a first come, first served basis using an electronic debit card.
- BikeLink is the vendor which manages the e-lockers and electronic stored value cards and is the source of this data.

## **Shared Bike Parking Facilities**

Shared Parking Facilities (2016)

Station	Parking Spots Available	Average Spots Used
		Per Day
San Francisco 4th and	200 in racks; 250 at	145 – 180 bikes per day
King Bike Valet Station	maximum capacity	(200+ bikes about once
		a week)
Menlo Park Bike Shelter	50	TBD
Palo Alto BikeStation	96	TBD; 80% of users
		store bikes overnight
Mountain View Bike	40	110 rental agreements;
Shelter		10-15 use daily

#### Notes:

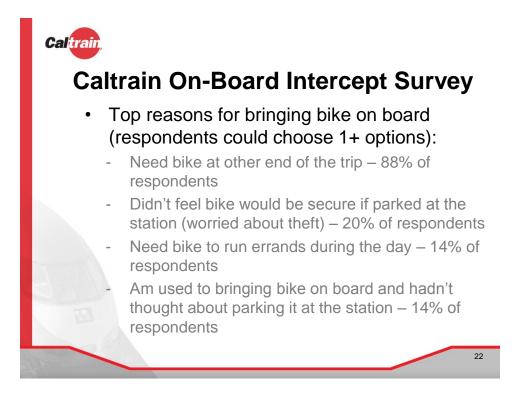
- 1. San Francisco 4<sup>th</sup> and King Bike Valet Station operated by Bikehub for Caltrain.
- 2. Menlo Park Bike Shelter operated by Caltrain under keyed locker agreement.
- 3. Palo Alto BikeStation operated by City of Palo Alto.
- 4. Mountain View Bike Shelter operated by City of Mountain View.

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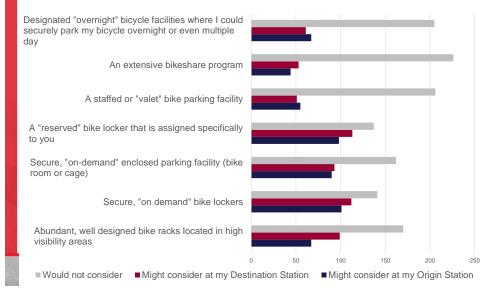
## **Caltrain On-Board Intercept Survey**

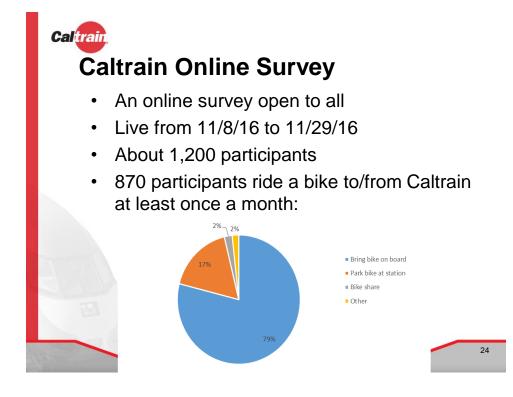
- · An on-board intercept survey in the bike cars
- Conducted in July 2016 during morning peak commute hours
- 328 participants
- Fairly representative of typical commute trips:
  - 97% started their trip from home
  - 90% destined for work/school
  - 59% used Caltrain five days/week
  - 79% were making a round trip



#### Caltrain On-Board Intercept Survey

## How would the following parking facilities or programs at the Caltrain stations you use influence your decision to bring a bike on board the train in the future?





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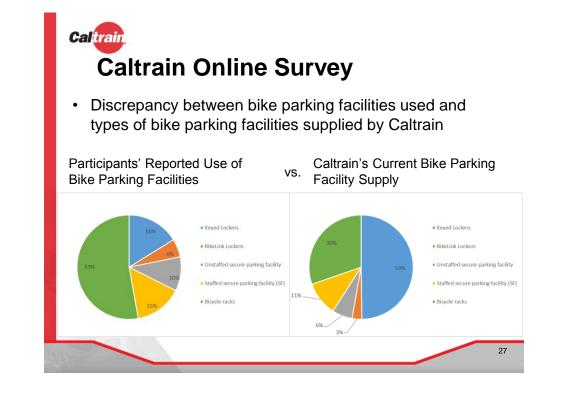
## **Caltrain Online Survey**

- Top reasons for bringing bike on board:
  - Need bike at other end of the trip (use a bike to get to and from Caltrain) – 85% of bikes-on-board respondents
  - Didn't feel bike would be secure if parked at the station (worried about theft) – 51% of bikes-onboard respondents
  - Need bike to run errands during the day 24% of bikes-on-board respondents
    - Bike parking facilities at the station require advanced sign up, cost money, or rules/regulations are too much of a hassle – 16% of bikes-on-board respondents

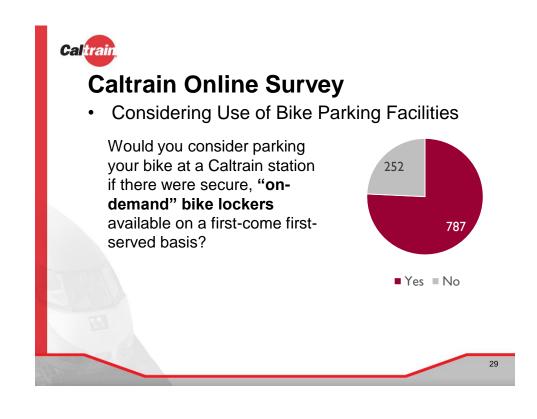


## **Caltrain Online Survey**

- Top reasons for not bringing bike on board:
  - Crowded bike cars 59% of bike parkers
  - Stress of being bumped or denied boarding if the bike car is full – 50% of bike parkers
  - Bike loading process is complicated 34% of bike parkers
  - Don't like carrying bike up the steps 30% of bike parkers





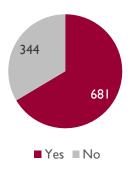


## Caltrain Online Survey

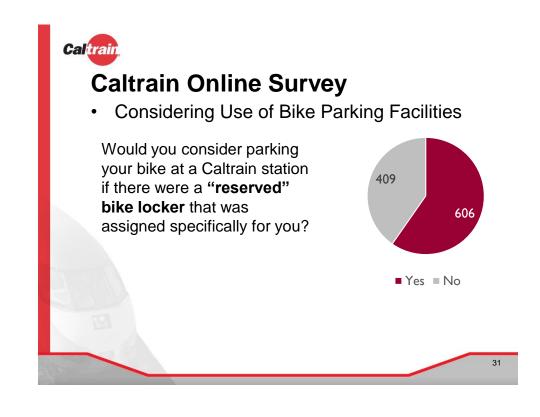
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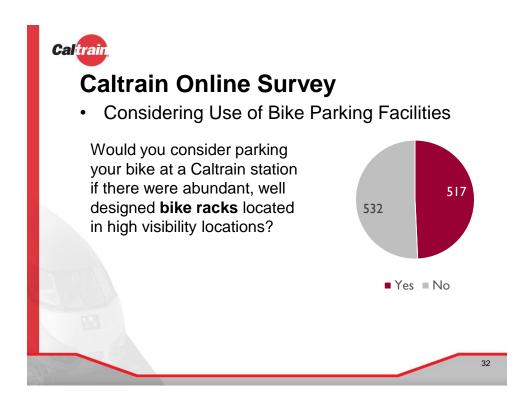
Considering Use of Bike Parking Facilities

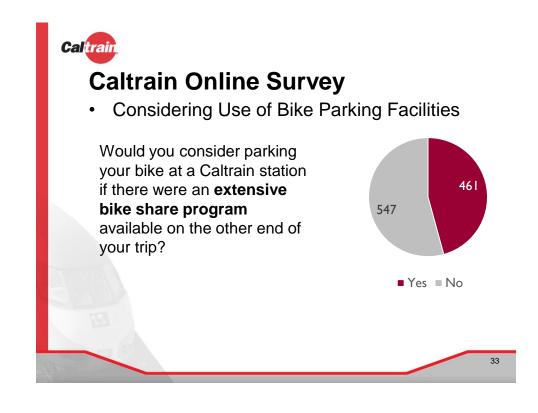
Would you consider parking your bike at a Caltrain station if there were secure, **"ondemand" enclosed parking** facility (without an attendant) available on a first-come, first-served basis (such as a bike room or cage) at the station?

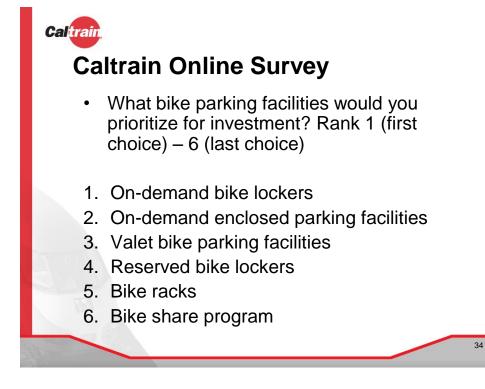


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## Caltrain Focus Groups

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- Three focus groups held with Caltrain passengers:
  - 12/6/16 in San Francisco
  - 12/7/16 in Mountain View
  - 12/8/16 in San Carlos
- Purpose was to determine the motivations of customers when making choices about what to do with their bike when riding the train
- Participants recruited from intercept and online surveys
- Participants selected based on what they did with their bike when they arrived at the station

## **Caltrain Focus Groups**

- Summary of Key Findings:
  - General agreement that parking bike at a station is preferable to bringing bike on board
  - Strong interest in and support for more secure wayside parking facilities (staffed or unstaffed bike rooms most popular)
  - Location of bike parking is important (near platform, well-lit, safe)
  - Better communication about and service of Caltrain's bike parking options desired



