



# Caltrain Infrastructure Design & Construction

Caltrain BAC  
September 20, 2018

# Overview

- Grade Separation Toolkit
- Station Management Toolbox
- Design Review

# Grade Separation Toolkit

- 92 Trains/Day + Freight
- More Trains Coming
- Reduction in Collisions
- Reduction in Delays
- Increased Connections
- Ped/Bike Only Crossings



# Grade Separation Toolkit

## Reasons for Toolkit

- Efficient, Consistent Messaging to Cities
- Review Past & Current Projects
- Lessons Learned
- Roles & Responsibilities
- Bike/Ped Input



# Station Management Toolbox

- One of three interrelated planning and policy analyses to address station access and transit-oriented development (TOD)
- Key questions for each project:
  - **Rail Corridor Use Policy:** What can be developed on JPB property? Who can use JPB right-of-way and real estate?
  - **TOD Policy:** How should Caltrain develop available property?
  - **Station Management Toolbox:** Help answer “Why?” questions, to help assess outcomes and trade-offs of station access and TOD decisions

# Station Management Toolbox

## Input

- Service Level
- Fares
- Ride Hail Trend
- Parking Price

## Development & Access Info

- Density
- Parking Changes
- Shuttles
- Bike Facilities
- Grid Connectivity





# Station Management Toolbox

## Caltrain Station Management Toolbox



### RIDERSHIP

	STATION		SYSTEM	
	Baseline	New Total	Baseline	New Total
Daily Boardings	6,705	6,705	125,261	125,261
Change in Off-Peak Ridership	-	-	-	-
Change in Peak Balance	-	-	-	-
Modal Access Efficiency <sup>?</sup>				
Index	5.5	5.5	5.4	5.4
AM Peak Mode of Access				
	Baseline	New Total	Baseline	New Total
■ Park-and-Ride	17%	17%	17%	17%
■ Other drop-off	7%	7%	10%	10%
■ Ride Hail	19%	19%	18%	18%
■ Transit	46%	46%	20%	20%
■ Bike			32%	32%
■ Walk				
AM Peak Mode of Egress				
	Baseline	New Total	Baseline	New Total
■ Park-and-Ride				
■ Other drop-off	11%	11%	27%	27%
■ Ride Hail			11%	11%
■ Transit	73%	73%	49%	49%
■ Bike				
■ Walk				

### REVENUE <sup>?</sup>

	STATION		SYSTEM	
	Baseline	New Total	Baseline	New Total
Passenger Revenue Annual \$1K	\$8,547	\$8,547	\$169,329	\$169,329
Parking Revenue Annual \$1K	\$800	\$800	\$9,645	\$9,645
Other Operating Costs Annual \$1K	\$0	\$0	\$0	\$0
Development Revenue NPV \$1K	\$0	\$0	\$0	\$0
Other Capital Costs NPV \$1K	\$0	\$0	\$0	\$0

### EQUITY & ENVIRONMENTAL

	STATION		SYSTEM	
	Baseline	New Total	Baseline	New Total
Jobs within 1/2 mile	17,256	17,256	488,474	488,474
New affordable housing 1/2 mile	0	0	0	0
Access/Egress VMT	3,819	3,819	150,958	150,958

### PARKING <sup>?</sup>

	Station Value	2016 Park & Ride Riders by Access Distance
		STATION SYSTEM
Baseline Parking Spaces	557	6+ 14%
Parking Occupancy	72%	3-6 24%
Net Change Parking Spaces	0	1-3 42%
Net Change Park & Ride Riders	0	1/2-1 27%
Net Change Non-Park & Ride Riders	0	0-1/2 15%
Net Change Total Ridership	0	10%

# Station Management Toolbox

- Case Studies
  - Belmont
  - S. San Francisco
  - Redwood City
- Include More Details
- Align with Business Plan



# Design Review

- Review of Capital Projects at Different Milestones
- Bike & Pedestrian Design Best Practices
- Emerging Access Options



# Questions/Comments