

February 28, 2023 Caltrain AMP Committee

Diridon Station Business Case Update



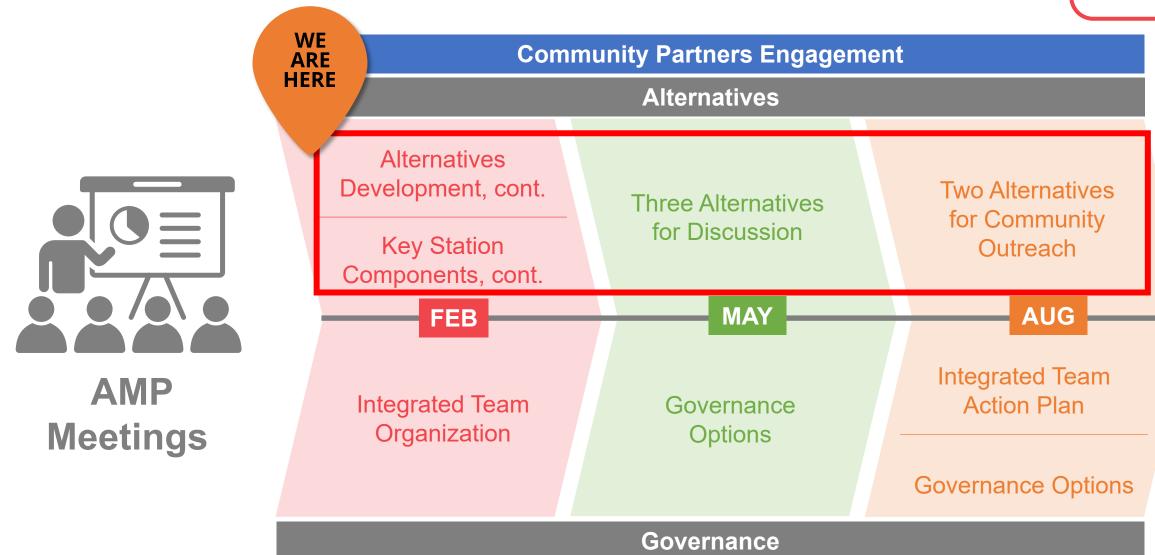
Today's Focus



1	Goals Review		
2	Alternatives Development Process		
3	Operational Context		
4	Station Design		
5	Station Components		
6	Governance Update		

Where We're Headed







Goals



The Surrounding Community:

An anchor for economic & community development

Partners & Key Stakeholders:

Achieving strategic aims and optimizing benefits for Partners and key stakeholders



The Passenger Experience:

A connected, multi-modal and passenger-friendly station

Transit Operators & Operations:

Facilitating safe, integrated and reliable transit operations

The Station Building:

A sustainable, future-proof and resilient station

Design Fundamentals



- How we will execute our goals:
 - Design ensures the function of the transit station designing from the tracks out
 - Consider the relationship of the tracks to the concourse to the ground plane and how those connect modes
 - Plan for activation of space with retail, food, gathering spaces, etc.
 - Connect communities around the station with pathways, view corridors, etc.



Key Station Components





PG&E Substation



Connecting to BSV



Historic Station



Light Rail Station Location/Alignment



Caltrain Maintenance Facility



Bus Service



Airport Connector Landing



Pick-up/ Drop-off



Retail/ Commercial

Alternatives Development Process







Intermodal Operations Analysis



- Anchor to needed transit service levels
- Operations Analysis track/platform configuration underway
- Analysis on-going:
 - Platform widths
 - Concourse locations
 - Passenger flow
 - Connectivity between modes







Growing Transit in San Jose







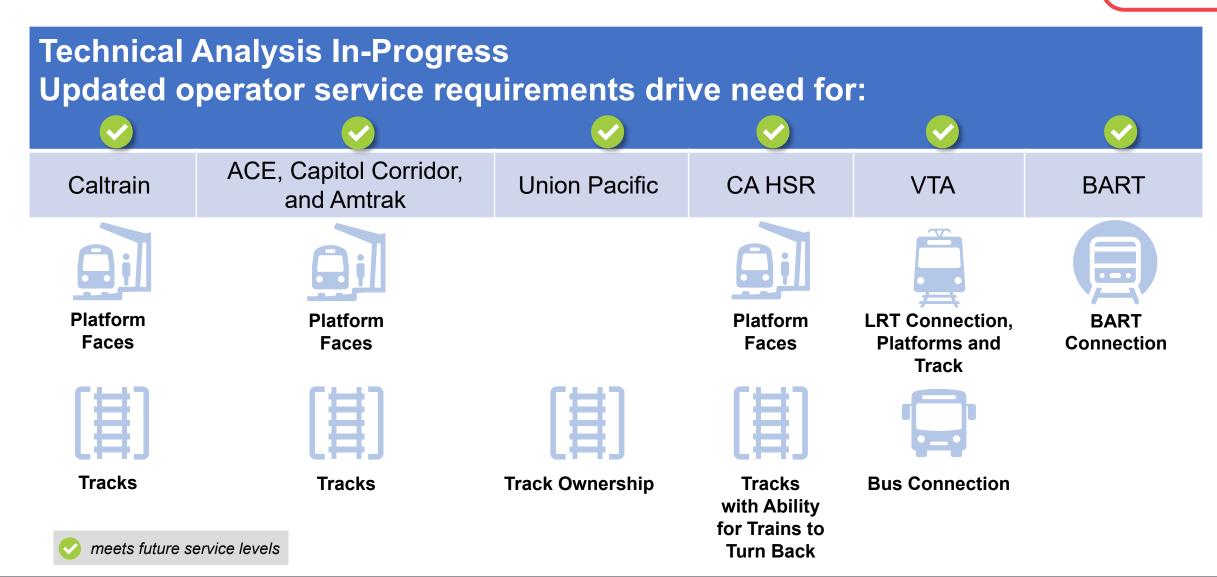
NEW Serviceswith BART and HSR

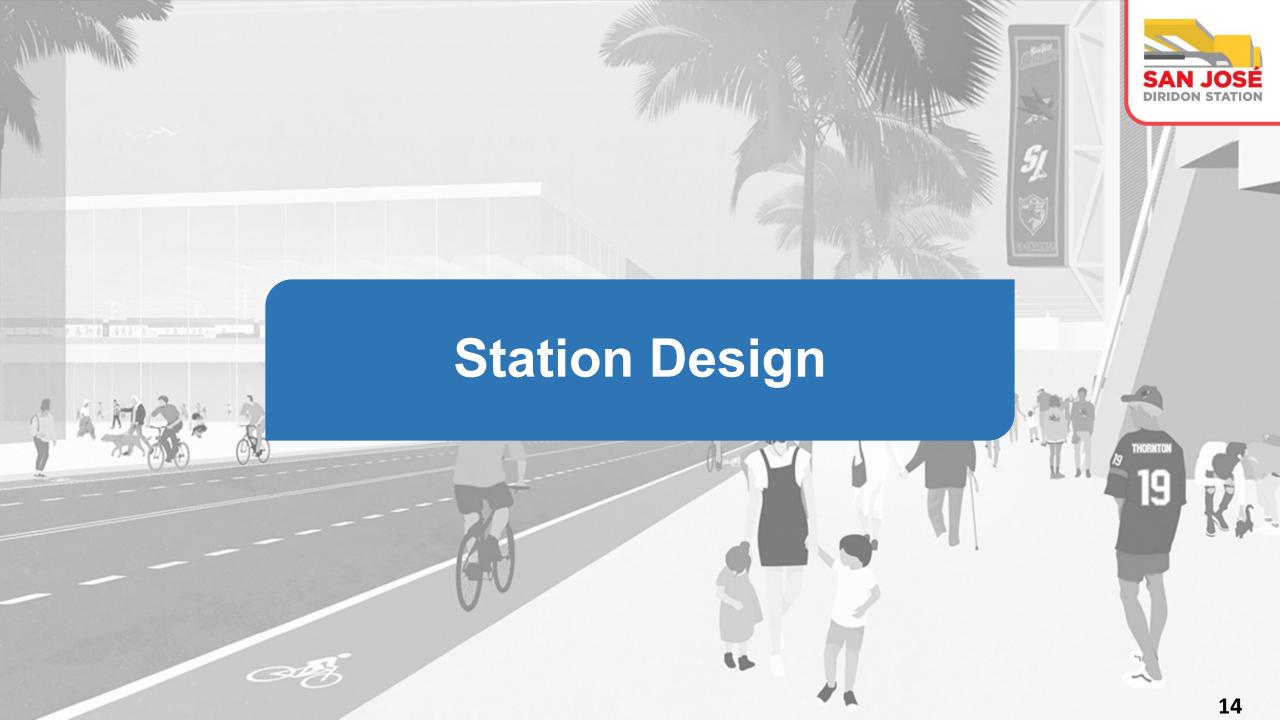


GROWTH = 100K+ Passengers with Supported Redevelopment

High-Capacity Transit Service Infrastructure Needs



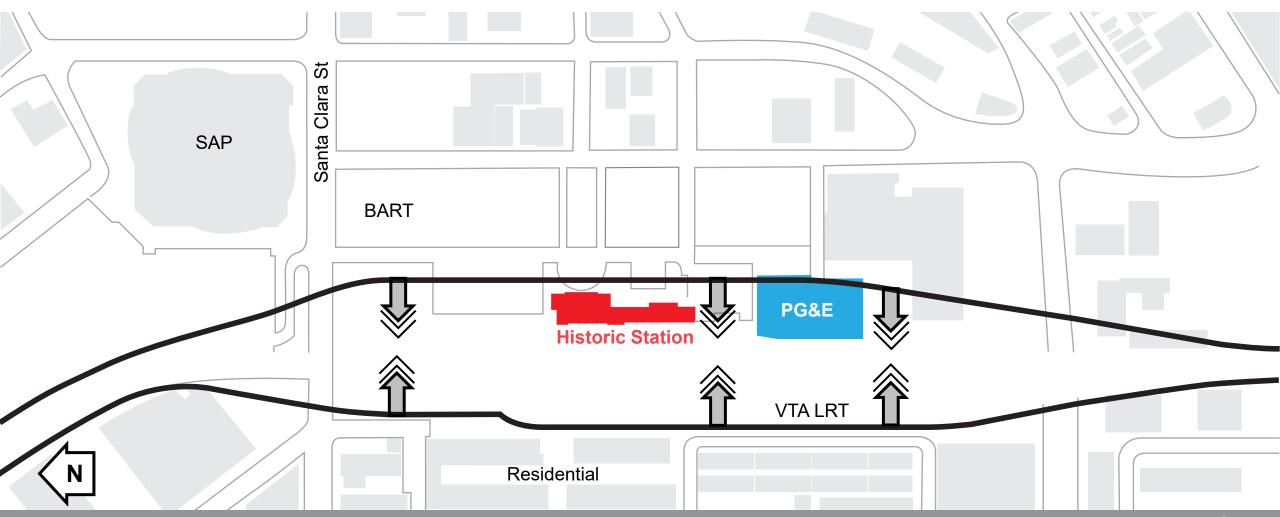




Footprint and Reducing Impact

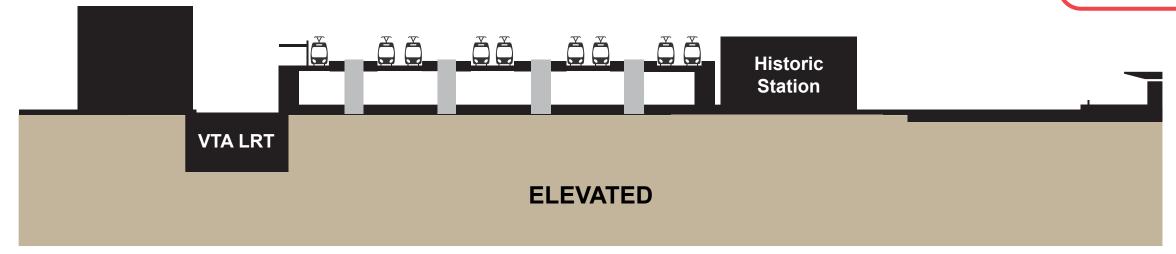


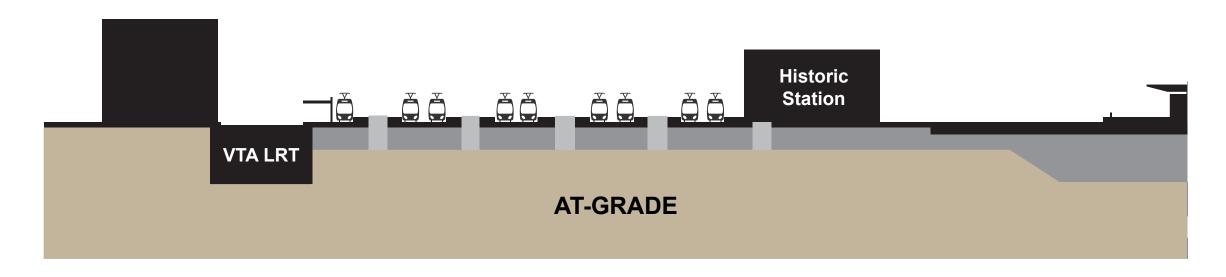
Assessing design options to reduce impacts identified by Concept Layout



Station Alternatives Under Consideration

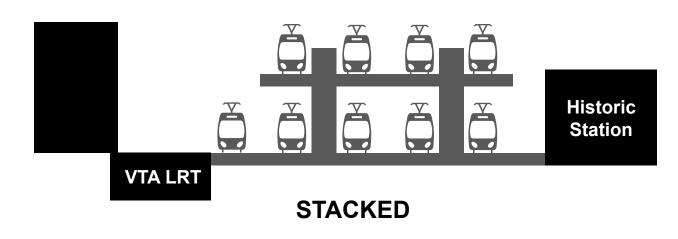






Station Alternatives Under Consideration





- Previously considered by HSR but didn't advance
- Considering an improved version, which limits height and length
- Potentially reduces land use impacts
- Assessment of viability is in progress



Anchor to Goals





The Passenger Experience:
A connected, multi-modal and passenger-friendly station

Key Station Components





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Caltrain
Maintenance
Facility



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Activation and Commercial Uses



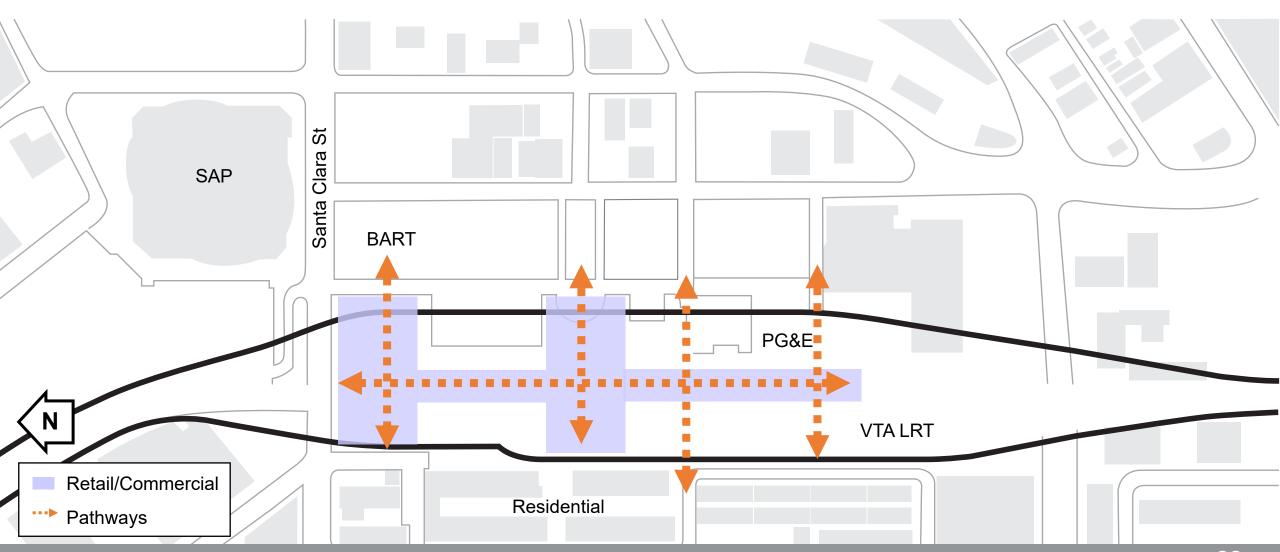


Retail/ Commercial

- All station alternatives will create a destination
- Priority considerations:
 - Retail and commercial corridors
 - Restaurants
 - Programmed space
- Locating commercial corridors to enhance transit connections

Creating Connections





Connecting to BART Silicon Valley (BSV)



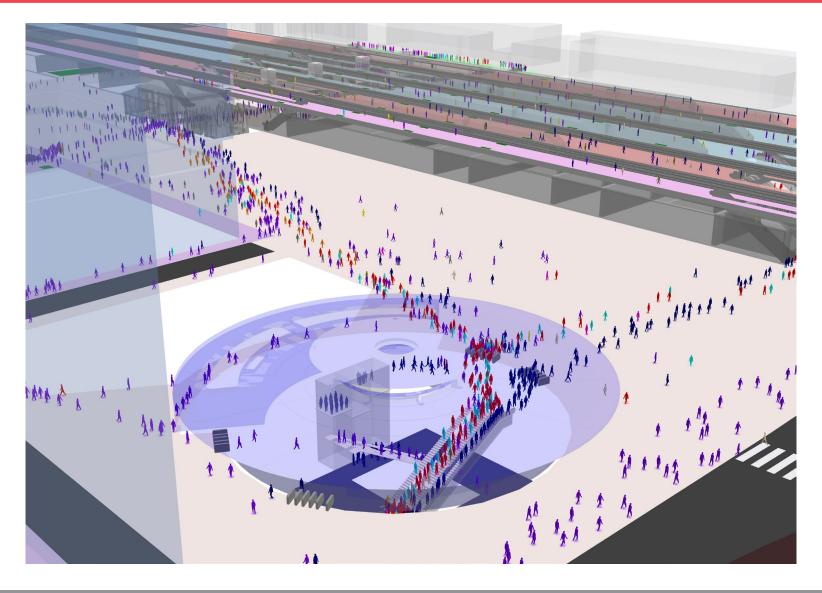


Connecting to BSV

- All station alternatives can provide a direct connection to BSV
- Ongoing coordination with BSV
- Pedestrian modeling will help inform transfer times and cost-benefit

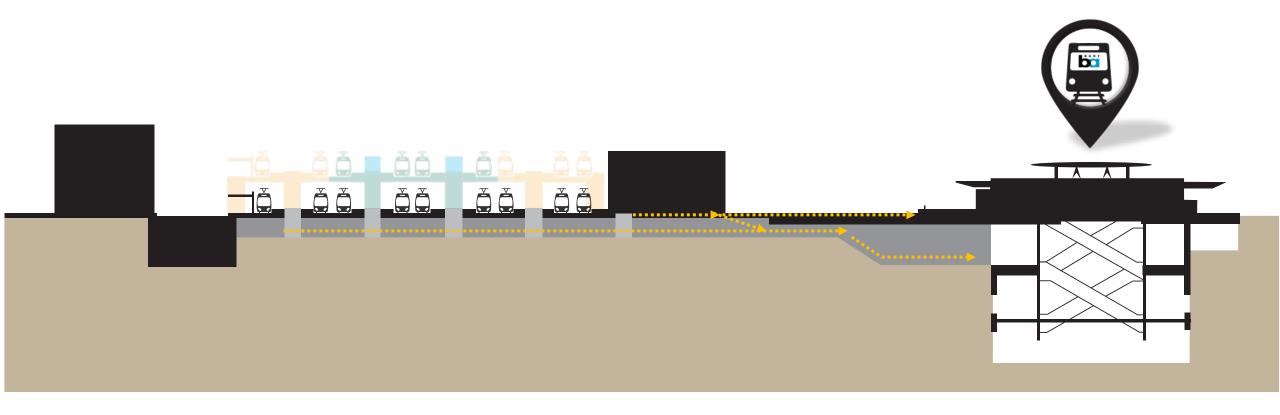
Connecting to BSV – Passenger Flows





Connecting to BSV





LRT Station Location and Alignment



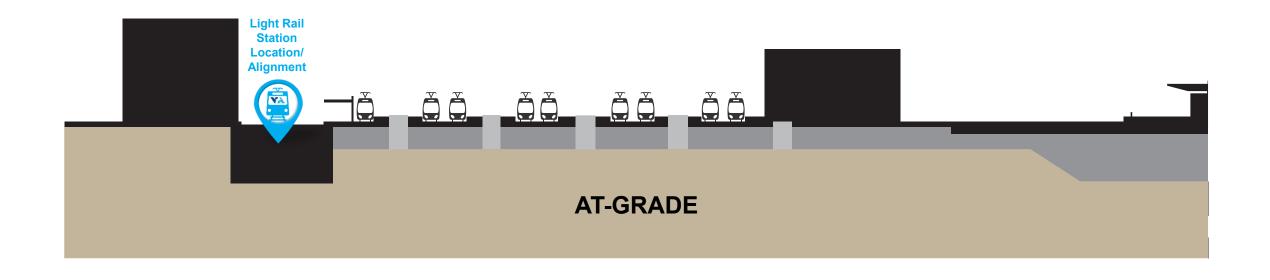


Light Rail
Station Location/
Alignment

- All station alternatives require some modification to LRT:
 - LRT tunnel, alignment and grade potentially need redesign to accommodate heavy rail corridor
 - Changes to station may be needed for easy transfers
- Further design of the LRT is a major next step in process

LRT Station Location and Alignment





Airport Connector Landing



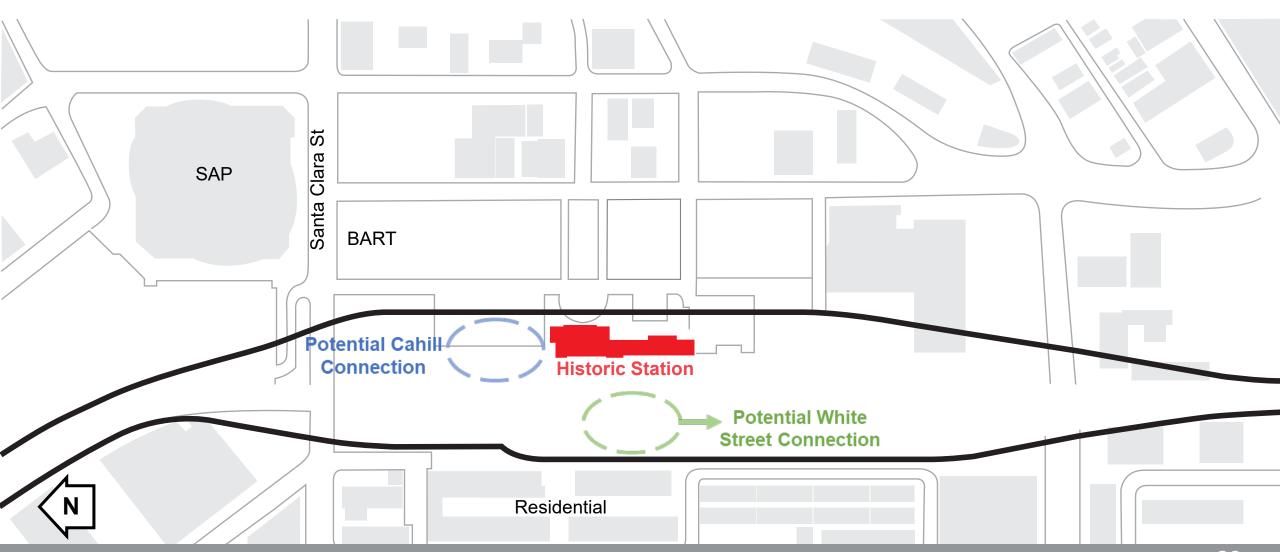


Airport Connector Landing

- City of San Jose conducting feasibility analysis
 - Ongoing coordination
- Station alternatives considering two alignments:
 - Cahill Street alignment assumed to be stub-end (under consideration by City of San Jose)
 - White Street alignment allows for extension

Airport Connector





Bus Service/Layover and Pick-up/Drop-off







Bus Service/Layover

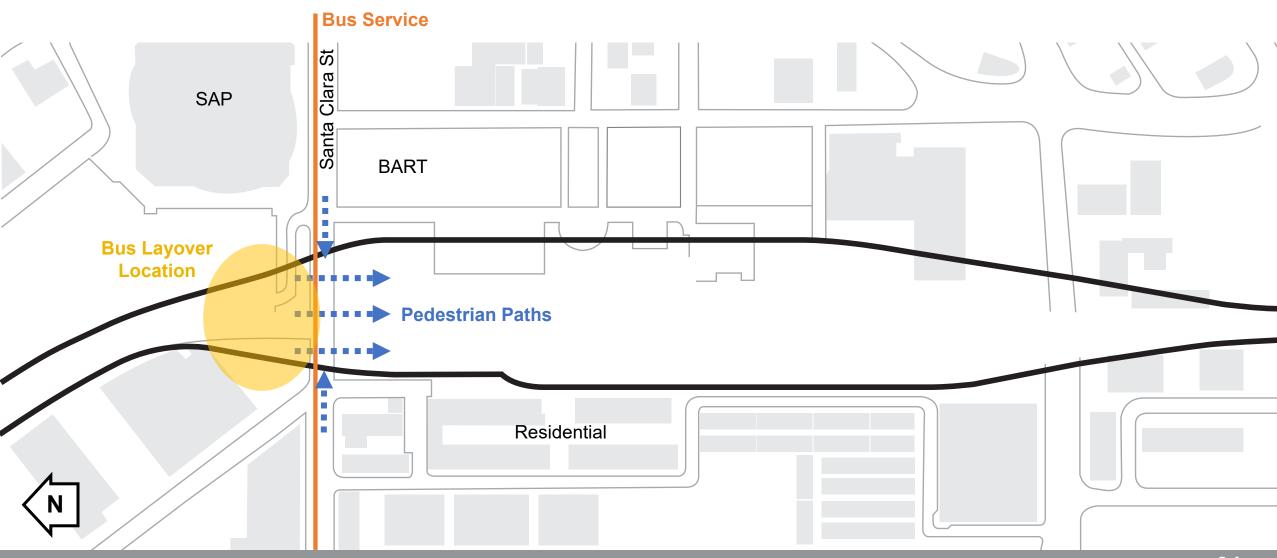
- All station alternatives prioritize:
 - Keeping bus stops on Santa Clara
 - Providing a layover facility
 - Easy pedestrian access to station

Pick-up/drop-off

- All station alternatives provide:
 - Pick-up/drop-off separate from bus layover facility
 - Dedicated curb space
 - Shared pedestrian access with bus facility

Bus Service/Layover and Pick-up/Drop-off





PG&E Substation





- Confirming the extent that at-grade and elevated station alternatives encroach into the PG&E substation site
- For the stacked alternative, assessing design options to avoid encroachment
- Substation contains outdated technology
- Coordination with City of San Jose,
 Downtown West, and PG&E needed
- Option to rebuild as a more compact substation in same location OR relocate nearby

PG&E Substation





Caltrain Maintenance Facility



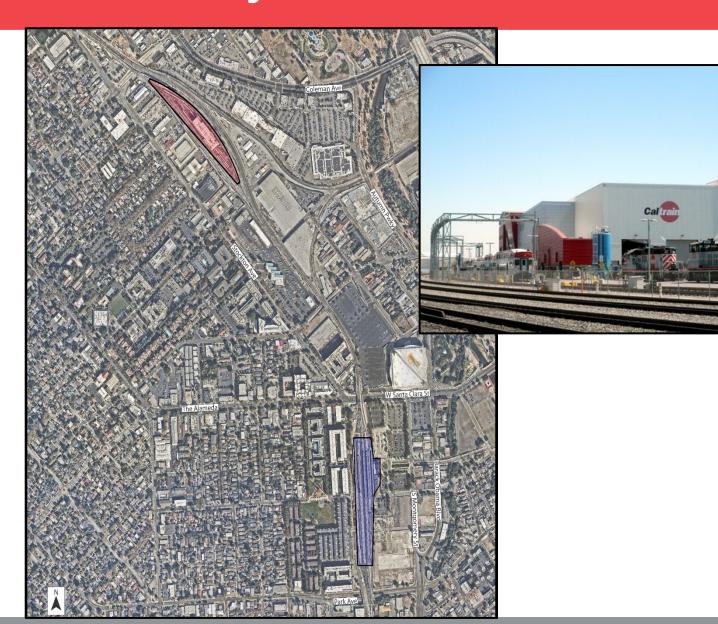


Caltrain
Maintenance
Facility

- Original Concept Layout proposed to relocate CEMOF because the elevated track could not connect with a grade less than 1% without UPRR approval
- Reconsidering CEMOF relocation as part of project to reduce project cost
- Investigating design solutions avoid relocation and a UPRR design variance
- If UPRR design approval is required, it is a significant project risk in terms of negotiating time frames and project costs
- Caltrain will separately consider CEMOF expansion/upgrades to satisfy systemwide needs

Caltrain Maintenance Facility





Key Station Components





PG&ESubstation



Connecting to BSV



Historic Station



Light Rail Station Location/Alignment



Caltrain
Maintenance
Facility



Bus Service



Airport Connector Landing



Pick-up/ Drop-off



Retail Commercial

Where We Go From Here





Complete
Technical Due
Diligence



Present 3 station Alternatives

- 1) Improved Concept Layout (Elevated)
 - 2) At-grade
 - 3) Stacked



Define Assumptions & Tradeoff Considerations



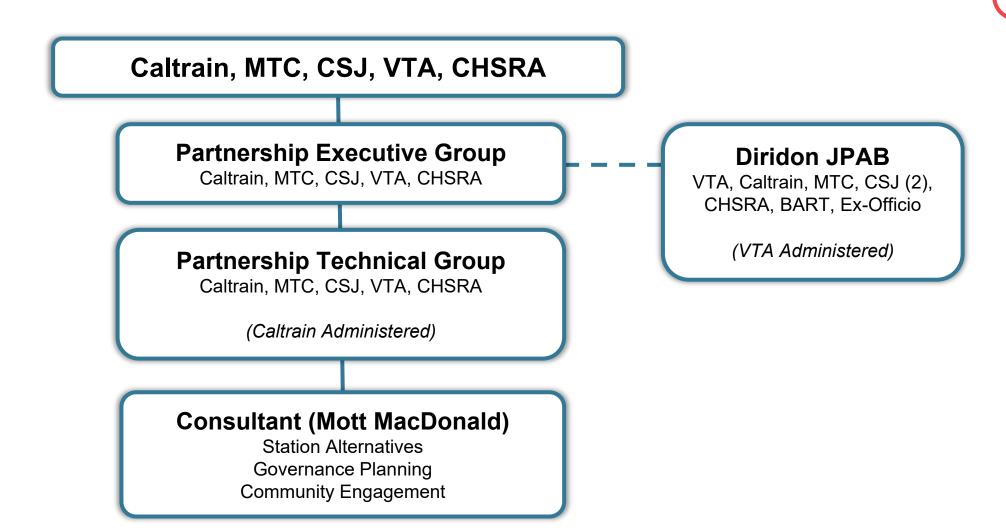
Context



- Goals
 - Redevelop Diridon Station
 - Advance project from Concept to Delivery
- MOU Partnership (San Jose, Caltrain, VTA, MTC, CHSRA)
- Set up governance structure for success
- Concurrent efforts
- Set up Interim Integrated Organization (to advance planning and environmental review)
 - Determine Long-term organization (to ensure funding and delivery)

Current Organization





Consideration



- Strengthen partnership relationships
- Clear goals and objectives
- Clear decision-making
- Clear roles, responsibilities, accountability
- Move faster

Restructured Organization



Diridon Project Steering Board

(Diridon JPAB membership: Caltrain, San Jose, VTA, MTC, CHSRA, BART, Ex-Officio)

Diridon Project Integrated Program Team

Caltrain

Environmental Planning

Station Planning

Design and Engineering

San Jose

Station Area Plan

Development

Stakeholder /
Community Outreach

VTA

Governance Planning / Funding Strategy

Legislative Advocacy
Plan

Projects Coordination

MTC

Regional Legislative Advocacy

Regional Funding Strategy

Regional Network

CHSRA

HSR Project Interface

FRA Partnership Support

Next Steps



Develop Partner Agency MOU

- Integrated Program Team Organization
- Project design review protocols

Set up next phase of work 2024 - 2028

- Scope and timeline (Community Engagement and Environmental)
- Budget / Funding
- Staff / Consultant
- San Jose office

Upcoming AMP Meetings



	Alternatives				
	Alternatives Development, cont.				
	Key Station Components, cont.	Three Alternatives for Discussion	Two Alternatives for Community Outreach		
Г	FEB	MAY	AUG		
	Integrated Team Organization	Governance Options	Integrated Team Action Plan		
			Governance Options		
	Governance				



Next AMP Update – May 2024





Alternatives

Alternatives for discussion



Governance

Long term options

