VTA's BART Silicon Valley Phase II Extension Project

Downtown/Diridon Community Working Group

February 5, 2019

Martin Luther King Jr. Library, Room 225 150 E San Fernando Street San José, CA 95112



Agenda

- Follow-Up Items & 2019 Work Plan
- Caltrain Electrification Update
- Phase II Update
- Construction Education and Outreach Plan
- Diridon Station Integrated Concept Plan
- Transit Oriented Development Strategy & Access Planning Studies Update
- Next Steps



Role of the CWG

- Be project liaisons
- Receive briefings on technical areas
- Receive project updates
- Build an understanding of the project
- Collaborate with VTA
- Contribute to the successful delivery of the project



Your Role as a CWG Member

- Attend CWG meetings
 - Bring your own binder (BYOB)
- Be honest
- Provide feedback
- Get informed
- Disseminate accurate information
- Act as conduits for information to community at large



Role of the CWG Team

CWG Team Member	Role
Eileen Goodwin	Facilitator
Gretchen Baisa	Primary Outreach Contact
Jill Gibson	Phase II Planning Manager
Erin Sheelen	Technical Lead
Charla Gomez	City of San José – Planning Liaison
Eric Eidlin	City of San José – DOT Liaison



Upcoming Meetings

CWG Dates

(http://www.vta.org/bart/upcomingmeetings)

- o April 16, 2019, 4:00 5:30 PM
- o June 11, 2019, 4:00 6:00 PM
- September 10, 2019, 4:00 6:00 PM
- November 12, 2019, 4:00 6:00 PM

VTA Board of Directors

(http://www.vta.org/get-involved/board-of-directors)

- February 7, 2019 5:30 PM
- o March 7, 2019 5:30 PM
- o April 4, 2019 5:30 PM
- Joint Policy Advisory Board (JPAB)
 - o April 25, 2019 3:00 PM



Follow-Up Items



Follow-Up Items

- VTA staff will update CWG members when station naming is an item on a future VTA Board agenda.
- VTA staff will update CWG members tonight with new information on the project's funding plan.
- November CWG meeting notes contained information regarding TIRCP funding. There are no longer any legal threats to Phase II's \$750 million allocation.
- VTA staff emailed out 2019 City Council and VTA Board rosters on 1/21/2019.







Agenda

- Caltrain System Overview
- Project Overview
- Electric Train Design
- San José Construction Activities
- Questions







Caltrain System

JPB owns right-of-way from SF to San José



- 32 Stations Gilroy to San Francisco
- 92 Weekday Trains
- At-Grade Crossings, viaducts, and bridges
- Intermodal Connections
- Bike Commuters

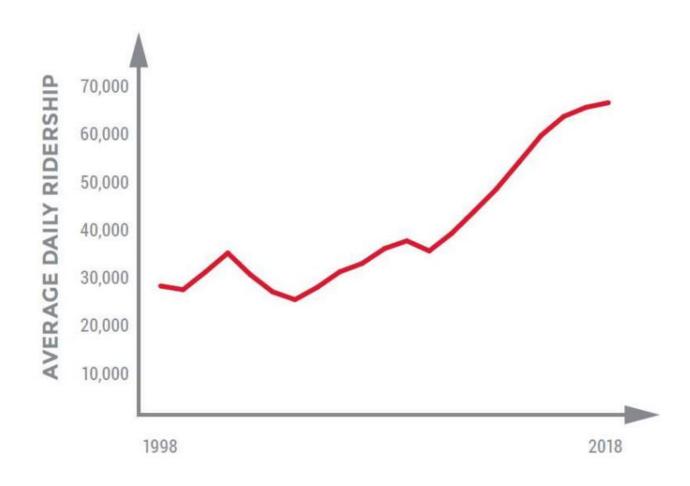
Union Pacific owns







Ridership









At Capacity Today











Aging Fleet

SERIES	QUANTITY	NUMBER OF SEATS	YEAR OF MANUFACTURE	MAKE	RETIRE DATE
Locamotives					
F40 PH-2	5	na	1985	GM - EMD	2015
F40PH-2-CAT	15	na	1985-1987	GM - EMD	2015-2017
F40 PH-2C	3	na	1998	Boise Locomotive	2028
MP36PH-3C	6	na	2003	Motive Power	2033
Passenger Cars					
Gallery Trailer	26	142	1985-1987	Nippon Sharyo	2015-2017
Gallery Trailer	16	148	1985-1987	Nippon Sharyo	2015-2017
Gallery Trailer	14	120	1999-2000	Nippon Sharyo	2030
Gallery Cab (Bike)	10	108	1985-1987	Nippon Sharyo	2015-2017
Gallery Cab (Bike)	6	78	1999-2000	Nippon Sharyo	2030
Gallery Cab (Bike)	21	97	1985	Nippon Sharyo	2015
Bi-Level Trailer*	16	149	1997	Bombardier	2027
Bi-Level Trailer	9	144	2002	Bombardier	2032
Bi-level Trailer (Bike)	2	114	2002	Bombardier	2032
Bi-level Trailer (Bike)	5	114	2001-2002	Bombardier	2031-2032
Bi-level Trailer (Bike)	2	114	2008	Bombardier	2038
Bi-level Trailer (Bike)	1	127	2002	Bombardier	2032
Bi-Level Trailer	6	140	2008	Bombardier	2038

^{*}Trailers recently acquired from Metrolink with refurbishment ongoing.







Regional Transportation Needs

- US 101 and Interstate 280 congested
- Corridor supports growing economy
- 75% Caltrain riders commute to work
- 60% are choice riders























Project Description

Area	Project	Service
51 miles	Electrification:	Up to 79 mph
San Francisco to San Jose (Tamien Station)	 Overhead Contact System (OCS) Traction Power Facilities Electric Trains 75 percent of fleet 	 Service Increase 6 trains / hour / direction More station stops / reduced travel time Restore Atherton & Broadway service Mixed-fleet service (interim period) Continue tenant service ACE, Capital Corridor, Amtrak, Freight





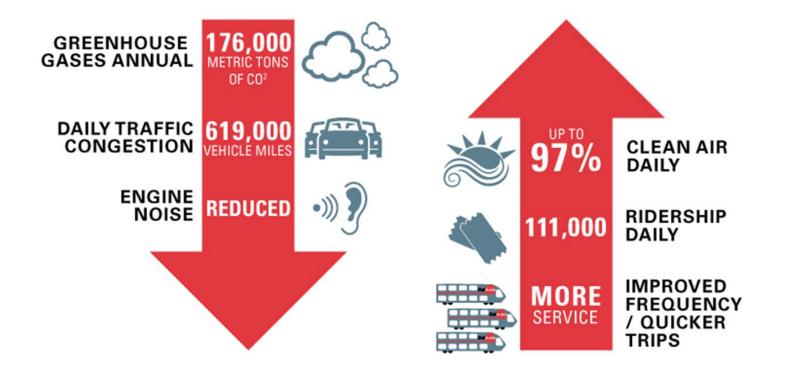
Service Benefits

Metric	Today	PCEP	
Example Baby Bullet Train			
Retain 5-6 stops	60 minutes	45 minutes	
Retain SF to SJ 60 minutes	6 stops	13 stops	
Example Redwood City Station			
Train stops / peak hour	3	5	





Key Regional Benefits (2040)



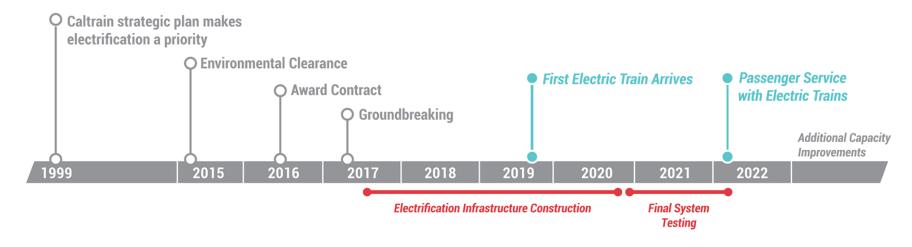






Schedule

MILESTONES



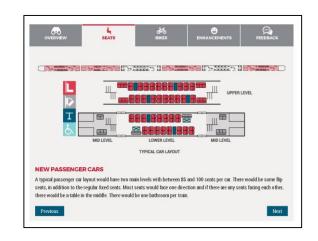
^{*}Please keep in mind that testing and construction will overlap as each Segment will be tested individually, prior to final system testing.





Electric Train

- 2016 Capacity Board Decision (bike to seat ratio, onboard bathrooms, upper doors 'not precluded')
- 2017 Design Decisions with Public Input (Exterior design, Seat colors, Bike Storage, ADA restroom)
- 2019 Virtual Reality 360 Tour



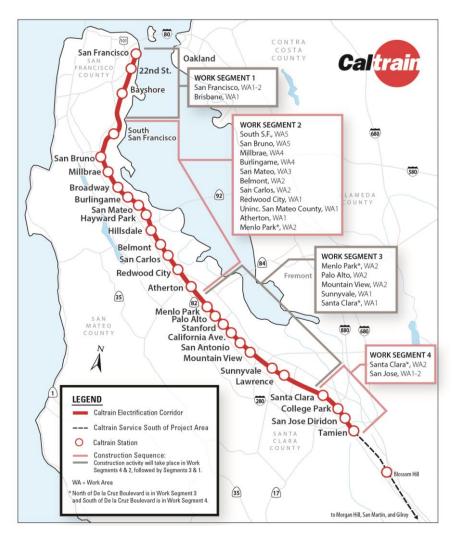






Construction Phasing

- 51 Miles Corridor
- 4 Work Segments
- 3,000 Poles
- 10 Traction Power Facilities

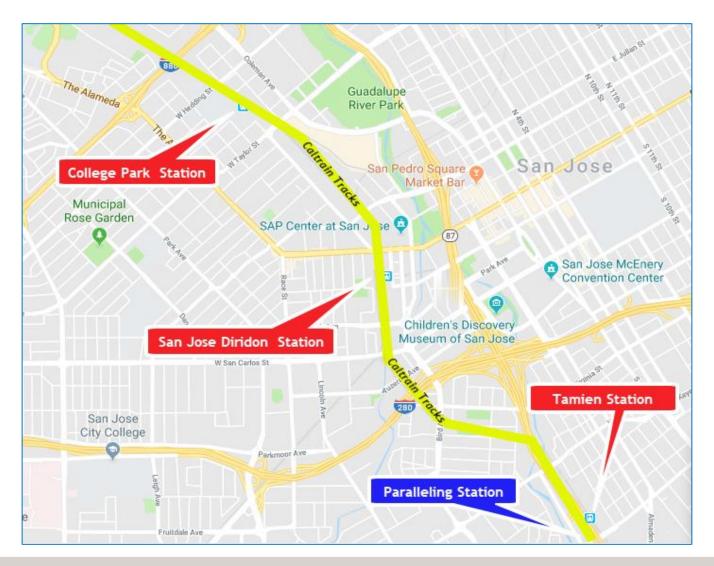








San José Work Area







Field Work Status

Pre-Construction Work Completed	 Utility Survey Geotechnical Investigations Disposal of Soil from Geotechnical Investigations Soil Resistivity Testing Site Surveys Signal Cable Inspections
Pre-Construction Work In Progress	Foundation PotholingTree Pruning and Removal
Future Work	Foundation InstallationPole InstallationWire Installation







Cal Mod Future Construction Activities

Date	Work Activity	Expected Duration*
In Progress	Potholing	2-3 months
Early 2019	Foundation Construction	3-4 months
Summer 2019	Pole Installation	3-4 months
Fall 2019	Wire Installation	3-4 months
In Progress	Traction Power Substation Construction	4-6 months
In Progress	Paralleling Station Construction	4-6 months
Spring 2019	CEMOF Facility Modifications	6-9 months







Potholing













Foundation Construction

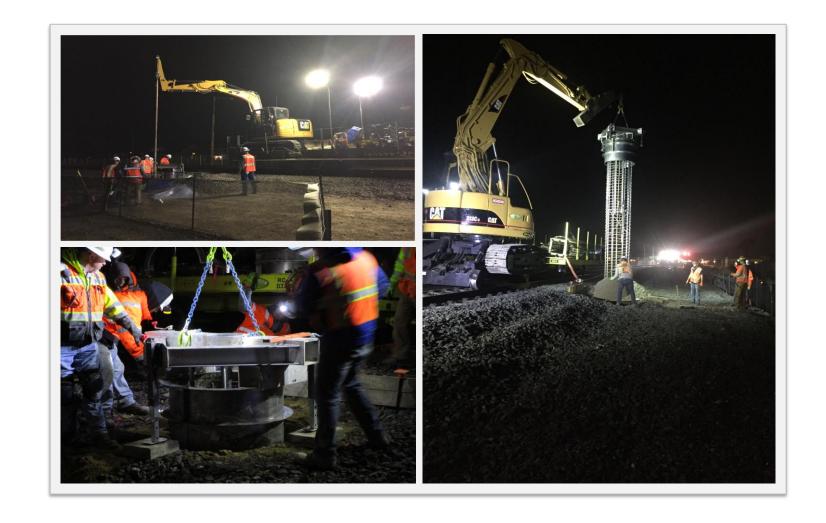
- Excavation
- Rebar and Anchor Installation
- Electrical Grounding
- Concrete Fill







Foundation Installation







Pole Installation

- 3,000 Installed throughout Corridor
 - Approx. 460 Poles in San José

Pole Height: 30-45.5'

• Pole Spacing: ~180' apart







Pole Installation San José







Single Track Cantilever

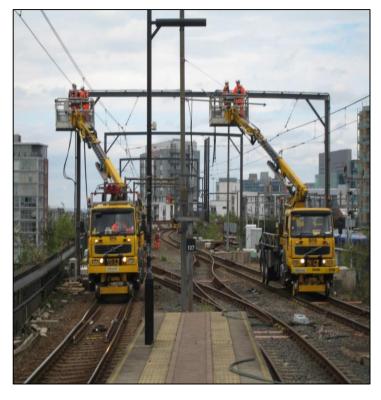
Two Track Cantilever

Center





Pole Installation San José





Headspan



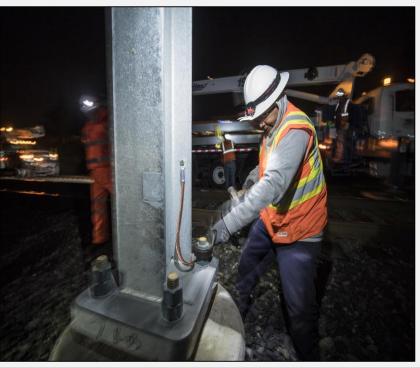


30



Pole Installation









Stringing Wire









Traction Power Facilities

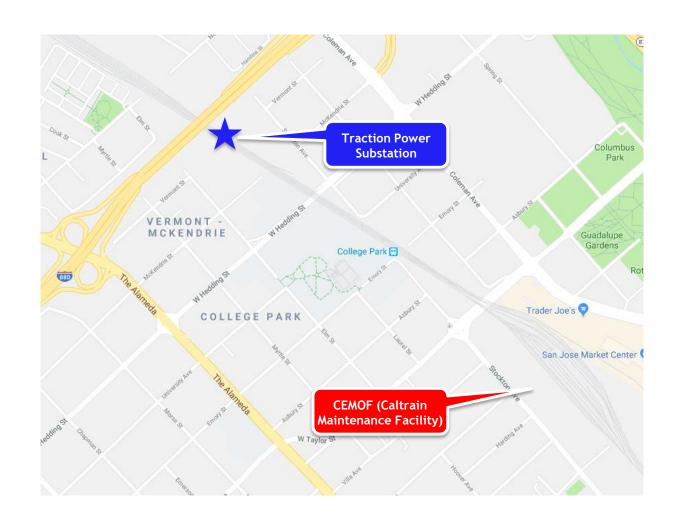
- 10 Traction Power Facilities Installed throughout Corridor
 - 1 Traction Power Substation installed in San José
 - 1 Paralleling Station in San José
 - Gantry structures up to 50'
- Provides electrical power to trains through the Overhead Contact System
- Unmanned station
- Day and weekend construction work
- Limited night work during construction







Cal Mod Traction Power Substation Location

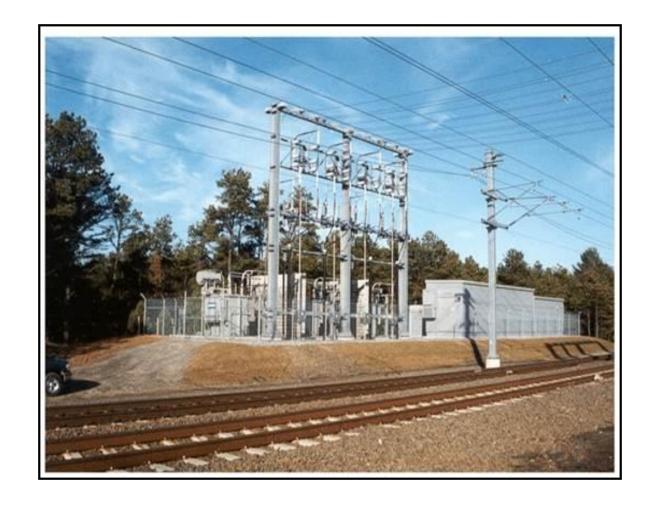








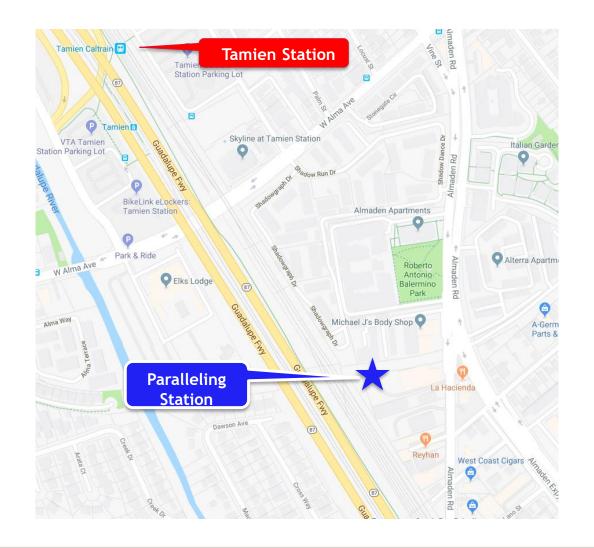
Traction Power Substation







Paralleling Station Location









Example Parallelling Stations



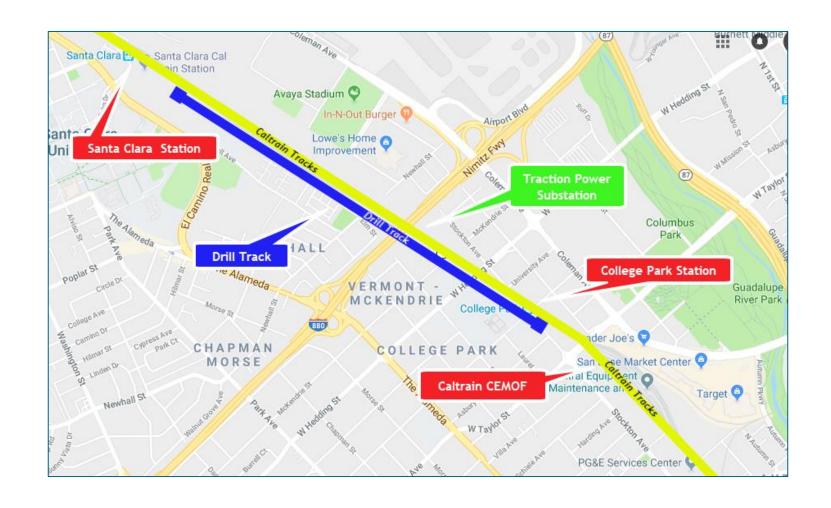








Test Track Location









Test Track Information

Approximately 1.5 miles of existing maintenance track (no new track)

- Located between Santa Clara Station and Caltrain CEMOF facility
- Foundations, poles and wires to be installed prior to electric train testing







Test Track Information

New electric trains will be tested on track

- Testing to occur between Late 2019 to Spring 2022
- Testing anticipated to be during daytime







Cal Wood Overall Construction Information

Work will occur during day and night

Some 24 hour weekend work

 Crews will utilize acoustical barrier blankets and position lights away from homes

Dedicated hotline for construction complaints - (650) 399-9659







Cal Voci SF Weekend Caltrain Closures

- Weekends Oct 6, 2018 to Late Spring 2019
 - Caltrain service north of the Bayshore Station will be suspended on the weekends
 - Bus service will be provided from Bayshore to 4th and King and 22nd Street stations
- Weekday service will remain unchanged
- Caltrain service south of Bayshore will remain unchanged
- Bus schedule available at caltrain.com







Public Outreach

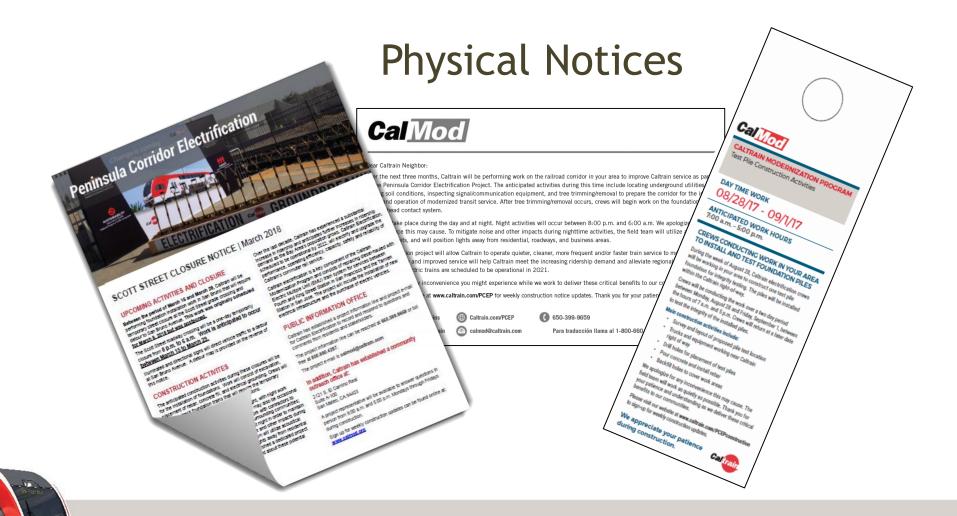
- Subscribe to Weekly Updates
 - Visit <u>www.calmod.org/get-involved</u>
- Additional Community Meetings
 - Pole and Wire Installation
- Social Media
- Construction Outreach Office







Public Outreach





CALMOD CONTACT INFORMATION

WEBSITE (19) CalMod.org

EMAIL © CalMod@caltrain.com

PHONE (650-399-9659 800-660-4287 (Toll Free)

OFFICE ② 2121 S. El Camino, Suite A-100 San Mateo, CA 94403 9 a.m. - 5 p.m. Monday - Friday FACEBOOK (1) www.facebook.com/caltrain

TWITTER O @caltrain





Phase II Update

Jill Gibson, VTA Mark Ramsey, VTA



Phase II Update

Measure B Update

General Engineering Consultant (GEC)

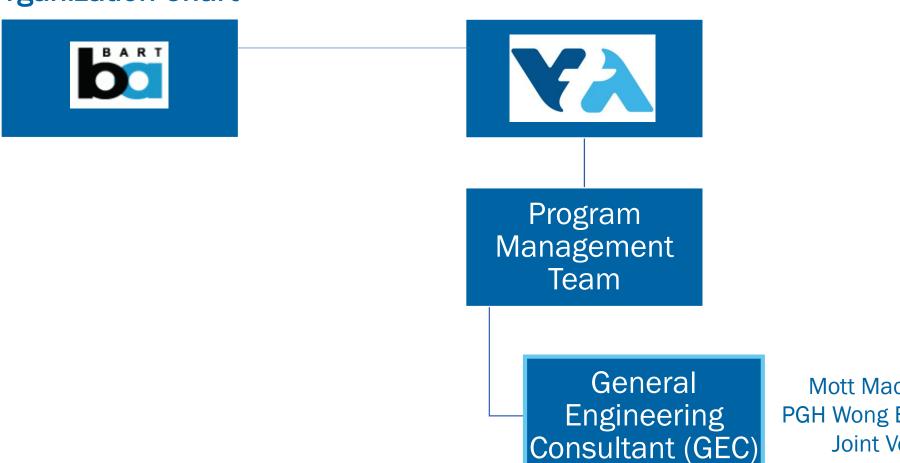
Project Funding Strategy

Field Investigations



GEC – Background

Project Organization Chart



Mott MacDonald/ **PGH Wong Engineering** Joint Venture



GEC - Scope

Design

- Develop design in accordance with final contracting plan
- Integrate all design scope

Review

- Review and evaluate alternate concepts submitted during construction procurement
- Review designbuild progress and final design submittals

Support

- Support design changes during construction
- Support systems integration testing and commissioning

Coordinate

- Coordinate infrastructure transition to BART/City
- Ensure timely as-built (i.e. blueprint) documentation



Project Funding Strategy – Update

Projected Local & State Funds:	\$4.186 Billion
	\$1.0 Billion
	\$1.5 Billion
Local Measures Revenues to fund financing and escalation costs ¹	\$0.4 Billion
Regional Measure 3	\$0.375 Billion
State Transit & Intercity Rail Capital Program	\$0.750 Billion

Projected Federal Funds:

☐ FTA Expedited Project Delivery

▼ State Traffic Congestion Relief Program

\$1.395 Billion

\$0.161 Billion

Projected Funding:

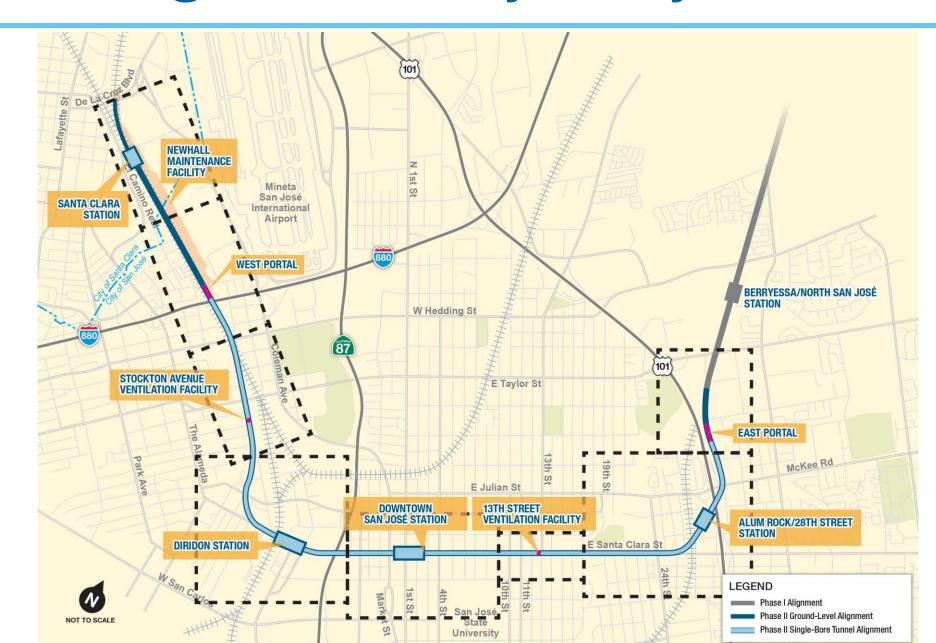
\$5.581 Billion²

^{2.} Funding strategy to cover project capital costs, unallocated contingency, and financing costs during construction. Funding strategy will be updated as project advances.



^{1.} Financing costs assumed to be available from 2000 Measure A and/or 2016 Measure B.

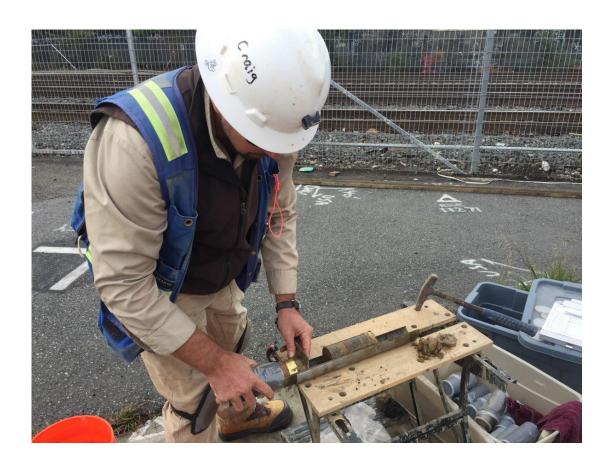
Field Investigations in Major Project Areas





Field Investigations

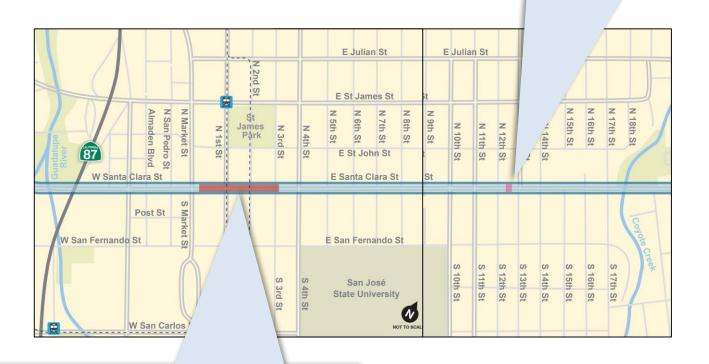






13th Street Ventilation Facility Area

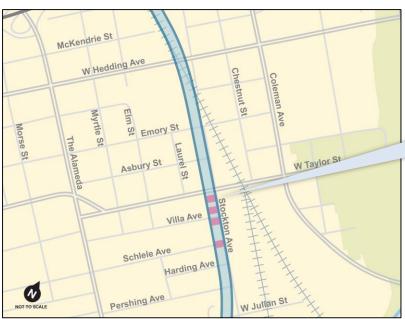
- Started: Early December 2018
- Expected Completion: Summer 2019



Downtown San José Station Area

- Started: Late September 2018
- Expected Completion: June 2019





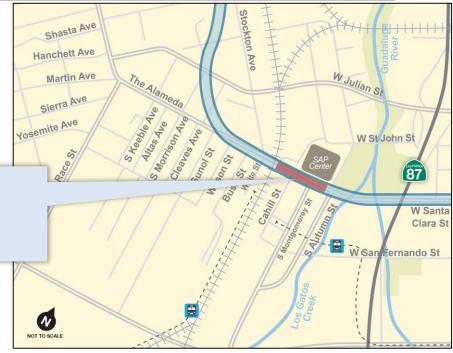
Stockton Avenue Ventilation Facility Area

- Started: Mid-November 2018
- Expected Completion: April 2019

Diridon Station Area

- Started: Late October 2018
- Expected Completion: June 2019





Questions?



Construction Education & Outreach Plan (CEOP)

Gretchen Baisa, VTA
Jill Gibson, VTA



CEOP

Community Meeting Participation

General Outreach Activities

 Small Business Marketing and Assistance Program (MAP)

Small Business Assistance Study



Community Meeting Participation

Coordination with City and internal stakeholders

- Community Presentations:
 - January 16: San José Downtown Association Commercial Property Owners
 - January 17: San José Downtown Association Historic District
 - February 2: Shasta Hanchett Park Neighborhood Association
 - February 21: 13th Street Neighborhood Action Coalition (NAC)
 - April 18: Alameda Business Association
 - On the horizon: VTA-hosted community meetings to be held in Santa Clara,
 Downtown/Diridon and Alum Rock/28th Street areas in early spring



General Outreach: November – January

• Digital: Email newsletters, social media, website postings

Door to door outreach for all field work

Mailing and stakeholder outreach for fieldwork



CEOP – Five Focus Areas





Business Resources - Small Business MAP

Business Resources

Small Business Marketing and Assistance Program (MAP)

Marketing Support

- Support marketing campaigns
- Provide wayfinding

Technical Support

- Provide assistance to identify resources, such as Small Business Administration, prior to preconstruction and construction activities
- Mentorship Program/consulting

Supported by Engagement & Outreach

- o Interview business to understand needs and concerns
- Partner with local nonprofits
- Notify project progress and impacts
- o Communicate procedures and requirements to receive assistance
- Task force



Small Business Assistance Best Practice Examples



Purple Line – LA Metro, Los Angeles, CA

- Art Program Campaign
- Metro Art Presents Series
- Art Tours
- Animated video tour of extension
- EAT, SHOP, PLAY Business Marketing Campaign Highlights the ways the community can Eat at local restaurants, Shop at local retail stores and Play at local destination.
- YouTube Video featuring M Day Spa on Wilshire Blvd
- https://www.youtube.com/watch?v=n0_J81VZI5I



Northwest Valley Extension – Valley Metro, Phoenix, AZ

- METRO MAX Rewards Program
 - Monthly discount program
 - Marketing and advertising to support businesses
 - Videos and social media campaign
 - 4,000 followers, 500,000+ monthly views



Small Business Assistance Best Practice Examples



2nd Avenue Subway – New York MTA

- Project Tours
 - Over 1,000 individuals
 - Lead by MTA Capitol Construction CEO
- Community Information Center
 - Hands on custom innovative displays
 - Museum quality interpretation and visuals
 - Feature exhibit "The People Behind the Project"
 - Staffed five days a week, one Saturday a month



2nd Avenue Subway – New York MTA

- Shop 2nd Ave Marketing Campaign
 - Daily specials
 - Attract foot traffic to corridor
 - Partnership with Chamber of Commerce
 - Enhance branding of 2nd Ave
 - Development of mobile app

Small Business MAP Timeline

Early
Engagement &
Data Collection

• Fall 2018 – Summer 2019

Small Business Assistance Study

Summer & Fall2019

MAP Plan Development

• Fall 2019 – Spring 2020

MAP Plan Implementation

Starting Summer/ Fall 2020



Small Business Assistance Study - Purpose

- VTA is in the process of procuring a study that provides recommendations for how to efficiently and equitably provide technical and financial assistance to businesses affected by construction
 - Single-bore tunnel reduces construction impacts, but unexpected events are always possible.



Small Business Assistance Study Objectives

Profile various existing technical and financial assistance program models from major transit projects

Conduct interviews with businesses to determine the business environment and business needs during construction

Define business eligibility criteria and create revenue baseline methodology to gauge construction impacts

Report recommendations for consideration to the VTA Board



Questions that will be Considered

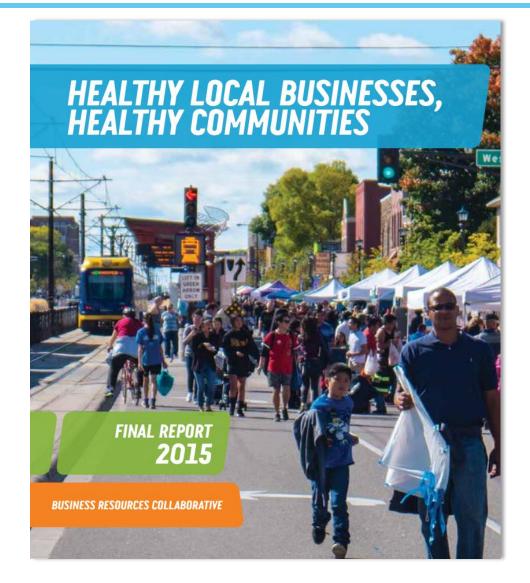
- Impacts: How will construction impact businesses?
- Support Services Provided: What types of small business support services are needed? What has worked elsewhere?
- Measuring and Proving Impact: What are the metrics and criteria for proving construction impacts?
- Program Eligibility: How will program eligibility be defined?
- Program Funding: Where will funding come from? How much is needed?
- Program Management: Who will manage and administer the assistance program?
- Measuring Program Effects: What metrics should be used to measure program efficacy?



Case Study: Minneapolis - Saint Paul, MN

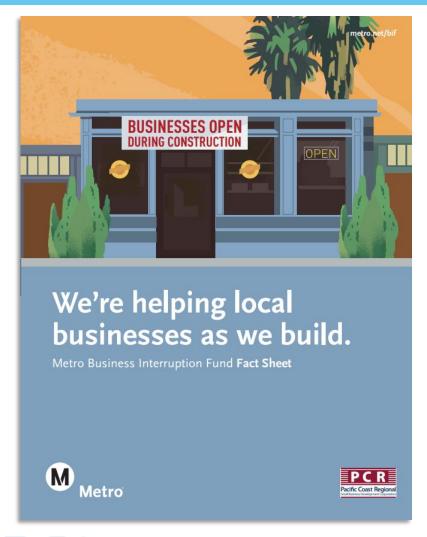
Business Resources Collaborative (2008-2014)

- Transit Project: 11 mile street-level light rail between Minneapolis and Saint Paul
- Construction Duration: 3 years (2010-2013)
- Major construction impacts: reduced sidewalk access, extensive street closures, and lost street parking
- Established Business Resources Collaborative
 - Group of business coalitions, nonprofits, and local governments (note: transit agency not involved)
 - Provided financial, technical, and marketing support to small businesses
- Results: \$2.8 billion invested, 13 net businesses, 4,459 new market rate housing units, and 2,375 new or preserved long-term affordable housing units





Case Study: Los Angeles, CA



LA Metro's Business Interruption Fund (2014 – present)

- Transit Projects: 8.5 mile street-level light rail, 9 mile subway, and 1.9 mile subway
- Construction duration: Started 2014 present
- Major construction impacts: extensive street closures
- LA Metro established Business Interruption Fund (BIF)
 - LA Metro Board approved \$10 million/year for BIF
 - Qualifying "mom and pop" businesses are eligible to receive a maximum grant of \$50,000/year
 - Grants cover operating expenses, such as rent/mortgage, utilities, and insurance
 - Funds administered by Pacific Coast Regional Small Business Development Corporation
- Results (so far): 82% of businesses remain open 2 years after award, 87% of clients satisfied



Timeline

Winter

Procurement

Spring

Request for Proposals & Hire Consultant

Summer & Fall Conduct Study

End 2019/ Early 2020 Final Report



Questions? Feedback?



San José Diridon Station Integrated Concept Plan

Dennis Kearney, VTA



Philosophy for the Future Station

The vision is to deliver a world-class transportation hub that provides seamless customer experience for movement between transit modes within the station and into the surrounding neighborhoods and Downtown.









JPAB Summary - 1/31/19

- Questions/Comments Included:
 - Ability to build above tracks
 - Track placement to east/west
 - Definition of the planning envelope/study area
 - Ensure access from all sides of station
 - Don't under design/don't skimp on design elements
 - Parking
 - Maintaining community engagement
- Next JPAB meeting: April 25, 2019

Concept Plan



Key Concept Plan Objectives

Physical Objectives



A Multi-modal, Integrated, and Human-centered Station



The Station as Catalyst for the Urban Environment



The Station as a Destination



A Compelling Vision for the Future of the Diridon Station



A Futureproof, Flexible, Adaptive, and Innovative Station

Operational Objectives



Partnership Organization

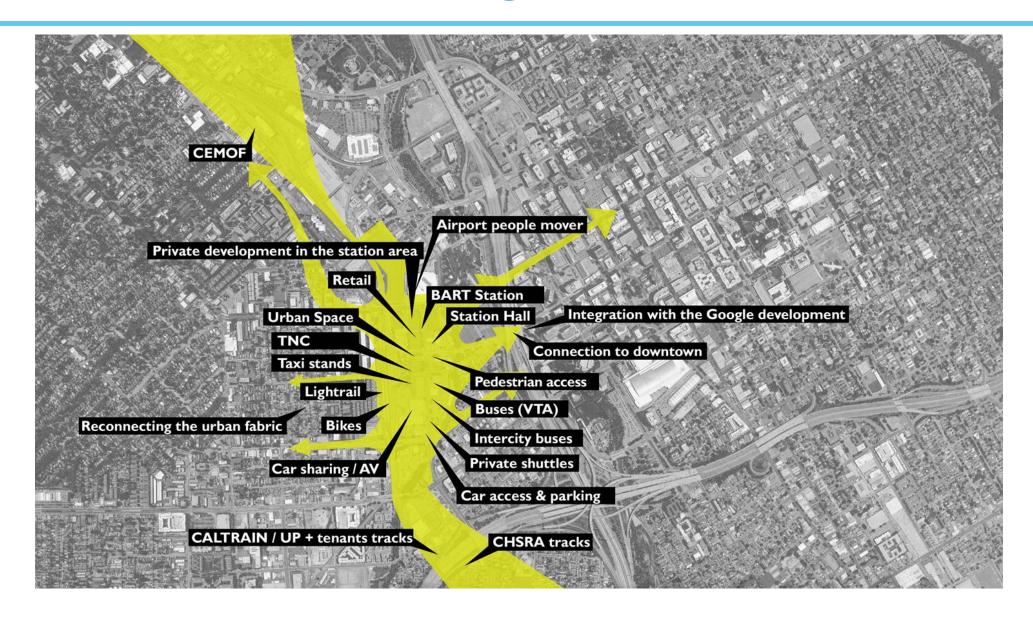


Internal & External Stakeholder



Funding Objectives and Risk Management

Station and Surroundings

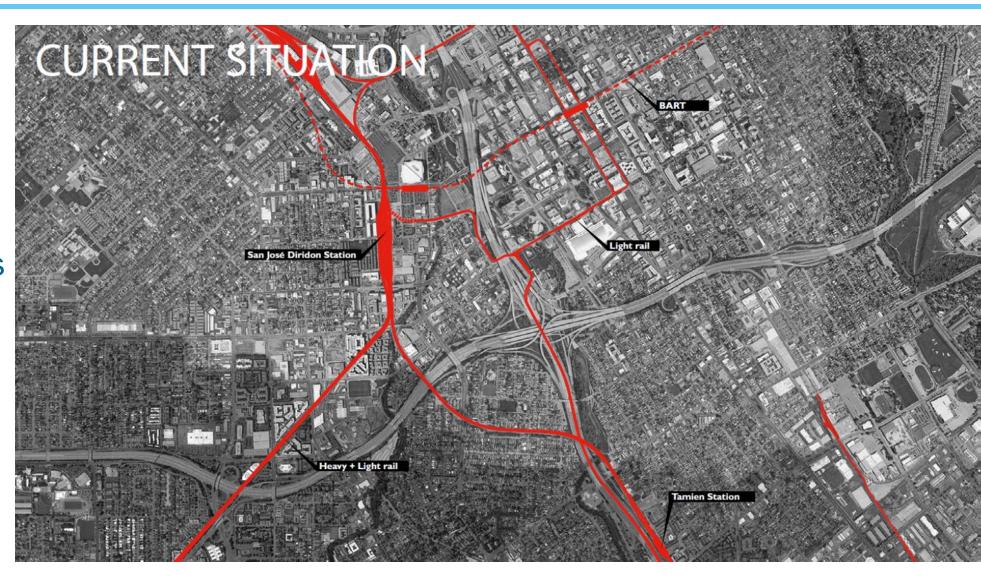


What's Included in the Concept Plan?

- Track configuration
- Spatial configuration of the Multimodal Hub
- Urban integration
- Position of Bus Stops, Light Rail, Taxis, TNCs, Vehicles, etc.
- Intermodal transfer
- Station Access
- Basis for evaluation
- NOT: Architectural Vision
- NOT: Detailed Engineering
- NOT: Atmosphere, Colors, Materials, Look & Feel

Track Configuration

- Physical Infrastructure
- Integration w/Surroundings
- Alignment
 w/ Caltrain
 Business Plan



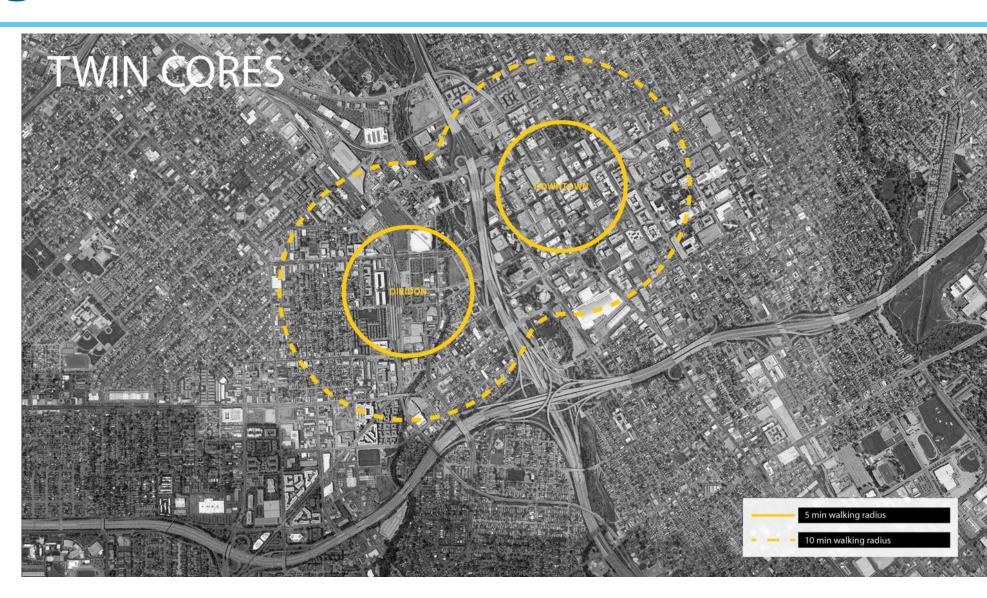
Station Configuration

- Horizontal Location
- Balanced Integration
- Easy, seamless connections



Urban Integration

- Physical Surroundings
- Connections& Pathways
- Barriers



Community Engagement Strategy

The Partners Developed an Outreach Strategy. Objectives Include:

- Inform and educate the public about the project and decision-making process
- Encourage active public participation by a broad range of the community
- Gather feedback for the Partner Agencies to consider during preparation of the Concept Plan
- Foster a sense of pride and collective ownership in the ultimate vision established by the Concept Plan

Completed Outreach Activities

- October 18, 2018: Presented to the City's Diridon Station Area Advisory Group
- December 10, 2018: Community Kick-off Meeting
- Updated <u>www.diridonsj.org</u> with information on the Concept Plan
- Maintaining email list to provide updates



Emerging Themes from Community

- The station needs to work well for the passenger
- The station should reflect the cultural diversity of San José design, art, accessibility, public spaces, and amenities
- The station should be easily accessible from anywhere in the city -- with a focus on pedestrian connectivity and access
- The station should function as a community hub 24/7

Upcoming Outreach Activities

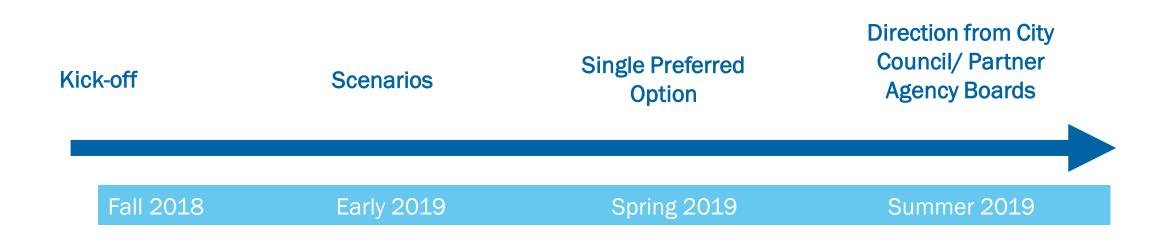
Future Outreach Focus:

- Elements, evaluation criteria, and trade-offs
- Scenario Evaluation and Single Preferred Option

Next Community Meeting:March/April 2019

<u>Anticipated engagement activities</u>: Community meetings, online/mobile feedback mechanisms, pop-ups, presentations to advisory groups, conversations with transit riders and other stakeholders, etc.

Key Milestones/Tentative Timeline - Phase I



Next Steps

• Joint Policy Advisory Board - April 25, 2019

Narrow to 3 Concept Scenarios – Spring 2019

- Public Engagement, Consulting the Community Ongoing
- Concept Plan Update at April 2019 CWGs

For more information: www.diridonsj.org

Questions?



Transit-Oriented Development Strategy & Access Planning Studies

Adriano Rothschild, VTA



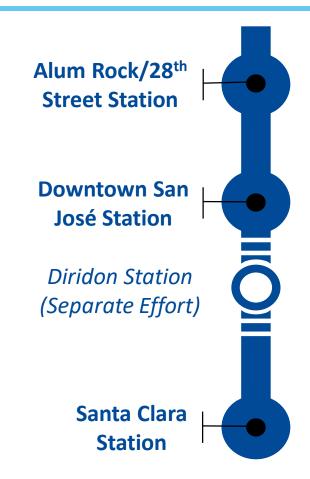
TOD Strategy Study

Land Use (TOD) Strategy

- realizing and enhancing the vision for growth around future stations
 - •strategies to increase investment in TOD
 - detailed implementation steps to catalyze TOD

Access Planning

multimodal access
planning to
support TOD and
growth in station
areas





Kick-off: January 2018

Estimated Completion: Summer 2019

Study Phases and Timeline

background conditions

Jan.-May 2018

corridor
opportunities &
constraints

Mar.-Sept. 2018

implementation strategies & tools

Oct.- June 2019

- review previous planning efforts and existing conditions
- "what is good TOD?" April CWG workshop
- "background conditions" June CWG workshop
- identify opportunity sites and station area access needs
- develop TOD prototypes and identify TOD potential
- evaluate development capacity and TOD barriers
- "opportunities and constraints" September CWG workshop
- "overcoming TOD barriers" November CWG workshop
- strategies to create a market for TOD
- guidelines for public and private improvements
- "plan for strategy implementation" February CWG
- "TOD strategies and policy recommendations" April CWG

final report

Apr.- June 2019

- compile findings and recommendations
- distribute draft final report to CWGs
- present implementation strategies to city councils
- "final recommendations" June CWG











City and Agency Engagement

- City collaboration is essential for Study's success
 - monthly coordination meetings with City staff
 - City, BART, and VTA staff involved in Technical Advisory Group















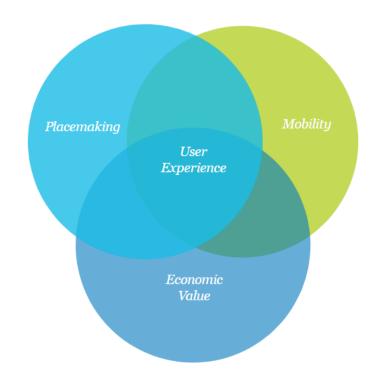
Challenges for Realizing TOD Potential

- Regulatory constraints on development
- Parking requirements and demand
- Short- to mid-term market demand conflicts with long-term vision for TOD
- Major capital improvements necessary for access and infrastructure to support development
- Risk of displacement of existing small businesses and households
- Multiple demands on existing and potential new funding sources



Study Outcome

- provide a "path to TOCs playbook" that includes guidance for cities to realize Transit-Oriented Communities (TOCs) around each BART Station
 - o land use and zoning recommendations to support balanced, 24-hour places
 - development guidelines for creating pedestrian-friendly environments
 - prioritized infrastructure and access improvements to serve Transit-Oriented Communities
 - policies that facilitate good Transit-Oriented Development
 - o financing tools for implementation





Engagement in 2019

How CWG members can participate

educate & create awareness Winter - Spring 2019

- public & stakeholder engagement
- City and agency partner coordination
- VTA Board briefings and presentation
- City Council study sessions

circulate information shared online and through social media

preview & test strategies Spring - Summer

- preview TOD strategies to public & stakeholders
- City and agency partner coordination
- refine TOD strategies and finalize "path to TOCs playbook" for each station

invite us to present at your community meetings

provide feedback and buy-in on strategies

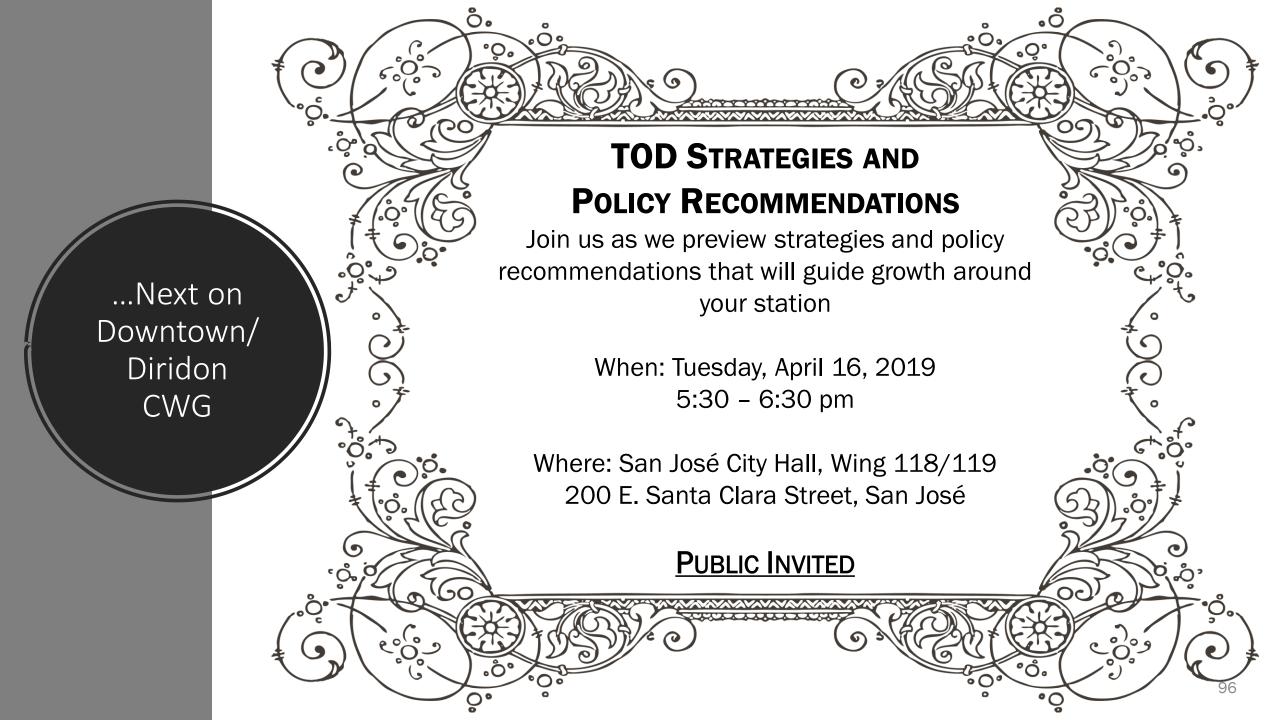


2019

present to VTA Board – call to action!

- present to City Councils call to action!
- support City in implementation of TOD strategies

attend and provide support for strategies at VTA Board and City Council meetings



Questions?



Next Steps

Eileen Goodwin, Facilitator



Next Steps

- Next CWG meeting: Tuesday, April 16, 2019, 4:00 – 5:30 PM San José City Hall Wing, Rooms 118/119, 200 E Santa Clara Street, San José, CA 95113
 - o Phase II Update
 - Construction Education & Outreach Plan
 - Diridon Station Integrated Concept Plan
 - Real Estate Update
 - Transit-Oriented Development Strategy & Access Planning Studies Update
- TOD Strategies and Policy Recommendations Workshop 5:30-6:30 PM
- Action Items
- Parking Items

