VTA's BART Silicon Valley Phase II Extension

Downtown/Diridon Community Working Group

June 9, 2015



Agenda



- Recap of CWG Process
- Follow up items
- VTA's BART Silicon Valley Program status
 - Phase II recap
 - Environmental update
 - Community Engagement process
- Ridership and Modeling
- Planned Land Use Framework
- Next Steps



CWG Process

Eileen Goodwin, Facilitator

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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

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Role of the CWG Team



| CWG Team Member | Role |
|------------------------|-------------------------------------|
| Eileen Goodwin | Facilitator |
| Brent Pearse | Primary Outreach Contact |
| Leyla Hedayat | Phase II Project Manager |
| Kevin Kurimoto | Technical Lead |
| Michael Brilliot | City of San Jose – Planning Liaison |
| Rosalynn Hughey | City of San Jose – Planning Liaison |
| Ray Salvano | City of San Jose – DOT Liaison |
| Jessica Zenk | City of San Jose – DOT Liaison |

Work Plan



Items from the work plan discussion during orientation fall in 3 categories:

- Item was added to the work plan
 - Added early because it informs CWG of items to be discussed in the 1st quarter of 2016
 - Added later because decision or information is not readily available
- · Item is included as part of topic previously identified in the work plan
- Item will be covered at a later date at another meeting, but we will inform the CWG when info becomes available or topic is not part of the scope of this project

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Work Plan Items



- BART staff to present need for maintenance facility and justification of location of maintenance facility.
- Presentation on the evaluation of the proposed east and west alternatives for the downtown station.
- Update on HSR project—given by HSR staff. Cover compatibility underneath Diridon.
- Presentation on underlying land use assumptions and how they connect to ridership assumptions.
- · Presentation on phasing options.
- Presentation on cross over track including purpose and location and constraints on locations.
- Presentation in June about VTA's community engagement process for this effort including how to give public input.

Work Plan Items (continued)



- Make sure the construction methods presentation in the work plan covers tunneling, construction phasing, cut and cover construction techniques, and temporary and permanent structures.
- Presentation on parking demand analysis especially as it related to the neighborhoods to the east of the downtown.
- Impacts on transit during construction in the vicinity of SJSU.
- City access study scope and findings, especially a connection to SAP.
- Presentation on the design and aesthetics of the BART structures such as vents, exits, etc.
- Presentation regarding trade offs between parking and TOD.
- Presentation regarding access planning (bikes, pedestrians, trails, etc.).
- Presentation regarding parking strategies at Diridon especially interface with SAP.

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Follow-up Items



• Add CWG member names to both sides of the table tents.

Upcoming Meetings



VTA Board of Directors

- August 6, 2015
- September 3, 2015
- October 1, 2015

SVRT Program Working Committee

- August 3, 2015
- October 5, 2015
- December 7, 2015

City of San Jose Station Area Walk Audits

• July 21, 2015

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Project Status

Leyla Hedayat, Phase II Project Manager

Phase II Design Completion



| unnel | | Systems | |
|-------------------------------------|------------|-------------------------|-----------|
| EPB Boring Machine | 95% | Traction Power | 65% |
| Tunnel Liners | 95% | Line Electrical | 65% |
| Horiz. & Vert. Alignment / Geotech. | 95% | Train Control | 65% |
| Trackwork | 65% | | |
| Portal Structures | 65% | | |
| Mid-Tunnel Ventilation structures | 65% | | |
| Cross Passages | 65% | | |
| tations | | Maintenance and Storage | |
| | | | |
| Alum Rock | 65% | Newhall Yard | 30% - 50% |
| Alum Rock Downtown | 65% 65% | Newhall Yard | 30% - 50% |
| | | Newhall Yard | 30% - 50% |
| Downtown | 65% | Newhall Yard | 30% - 50% |
| Downtown Diridon/Arena | 65% 65% | Newhall Yard | 30% - 50% |
| Downtown Diridon/Arena | 65% 65% | Newhall Yard | 30% - 50% |

Environmental Update



- Scoping Report released May 26, 2015
- Over 350 total comments were received in all.
- Documents and consolidates comments received, and considers:
 - Topics/concepts already analyzed
 - Topics/concepts that are not feasible and/or outside of environmental scope
 - New topics/concepts that are feasible and warrant analysis
- Technical analysis continues



Community Engagement process Brent Pearse, Community Outreach

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Community Engagement



- Strategy: To actively engage and educate community stakeholders on project status and technical subjects
- Build long term relationships that will last through environmental, final design and construction
- Develop and encourage public participation between VTA and the community

Three Pronged Approach



- 1. Workshops and Walks: Engage audiences, dive deep on complex subjects: finance/funding, ridership/modeling, access and construction
- 2. Community Engagement during Environmental Process
- **3. Ongoing Communication:** 20 plus presentations to organizations/businesses since early 2015



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Important Upcoming Opportunities



Open to All

- 1. July 21, 2015 Access Planning Audit Walk, CSJ Lead
- 2. July 2015 Land Use Workshop
- 3. October 2015 Finance/Measures A Workshop
- **4. January 2016** Construction Methods/Approach

Why These Topics?

Answer: We receive more public comments and questions on these topics that anything else.

Goal: Address questions and concerns through technical experts and hands on exercises

General Questions



- When and how is the best time to use my own organization communication tools: blog, website, social media?
 - A: Key project milestones, release of public documents, board meetings
- What types of other groups has or will VTA outreach to?
 - A: Business organizations, community based organizations, low income/minority communities
- How can assigned outreach staff assist me?
 - A: Organize special presentations, meetings, follow up on questions and concerns, keep us moving forward

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Staying Involved



- CWG Portal on www.vta.org/bart/phaseIICWGs
- Email Updates: www.vta.org/bart/subscribe
 - Recommend Topics BART Planning, BART, Environmental, BART News
- Social Media Sharing
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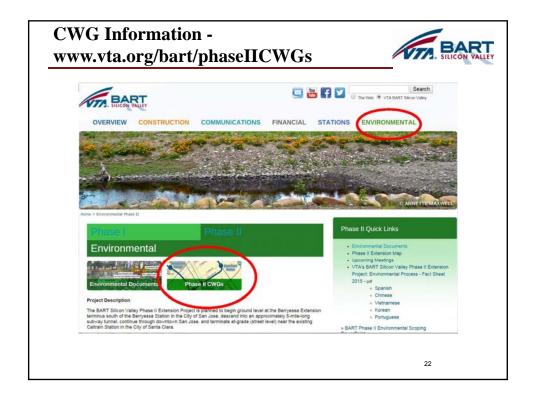
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Committee and Board Meetings







Santa Clara Valley Transportation Authority Countywide Model

Presented by George Naylor
Transportation Planning Manager
Travel Demand Forecasting, Research and GIS
Santa Clara Valley Transportation Authority

george.naylor@vta.org
June 9, 2015

Overview of the VTA Travel Demand Model



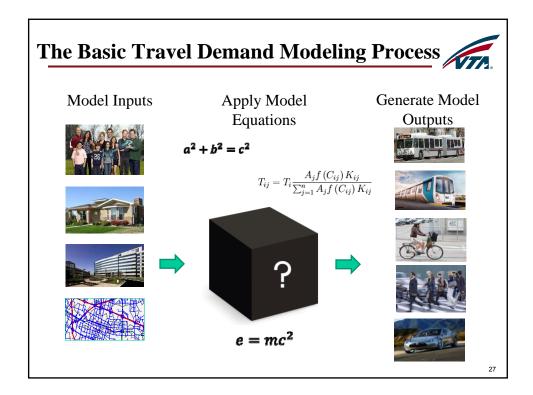
- Set of Mathematical Models Used to Estimate Existing and Future Travel Patterns > Planning Tools used for Policy Decisions
- Key Inputs Land Uses, Transportation Networks, Pricing
- Key Outputs Trips, Mode Shares, Travel Volumes on Roadways and Transit Lines, Travel Speeds and Times

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Overview of the VTA Travel Demand Model



- Developed using Observed Travel Patterns from Household Travel Survey Data and Census (Calibration and Validation)
- > Forecast Inputs are Applied to Predict Travel Demand
- Used to Define Transportation Improvement Policies and Test 'What-if' Scenarios
- Allows for Different Scales of Analysis > Regional, County, Facility, Route, Transit Stop/Station



Key Model Inputs - Building Blocks



- ➤ Socioeconomic Data Inputs
 - ➤ Development Patterns and Activities
 - ➤ Population, Households, Workers, Age, Income
 - ➤ Provided by ABAG: reviewed by local jurisdictions
 - ➤ Employment by Industry Type (Retail, Manufacturing, Service, etc.)
 - ➤ Summarized by Traffic Analysis Zone
- ➤ Multi-modal Transportation Network Inputs
 - ➤ Roadways, Transit Lines and Stations, Bicycle Paths, Pedestrian Paths
- ➤ Pricing Descriptors
 - ➤ Gasoline, auto operating, transit fares, parking costs, tolls

Socio-economic Data Inputs



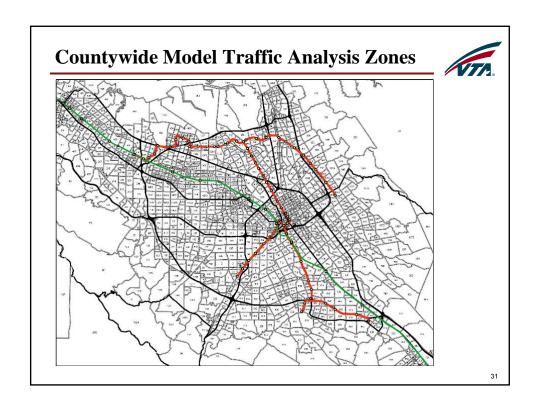
- ➤ VTA is required to use the official regional forecasts prepared by Association of Bay Area Governments (ABAG)
- ➤ ABAG prepared latest series used in the Regional Transportation Plan (RTP) known as ABAG Projections 2013
- ➤ Projections 2013 have been tailored to meet ABAG and MTC policy goals as well as meet GHG emission targets mandated by Senate Bill 375
- > VTA receives census tract data from ABAG
- ➤ Data are then allocated to smaller Traffic Analysis Zones (TAZs) for use in the VTA models

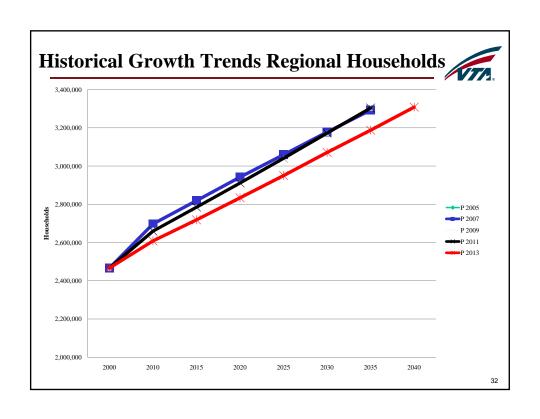
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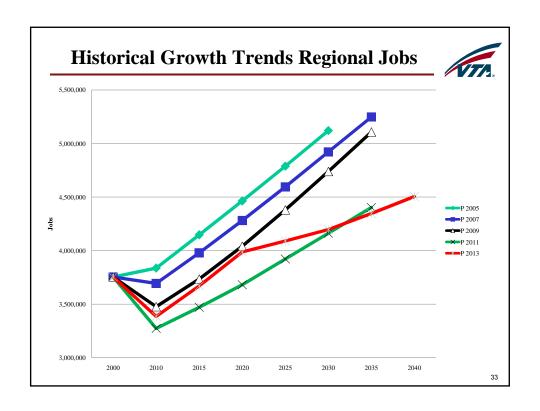
Allocation Procedure to VTA Model Traffic Analysis Zones (TAZ)

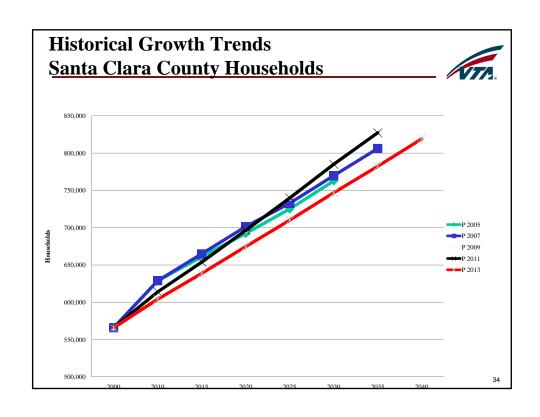


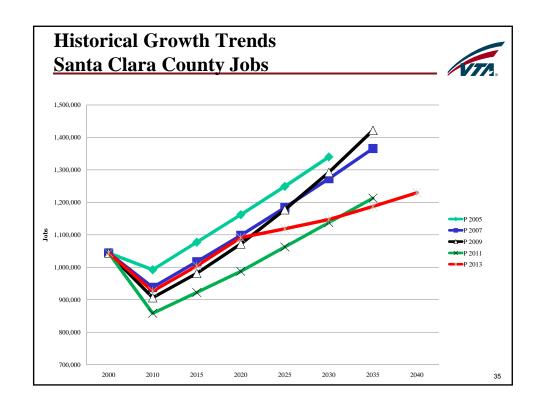
- > Start with development of base year 2010
- ➤ Households and population from 2010 Census
- ➤ Jobs from latest parcel data from Dataquick
- ➤ Allocated ABAG Census totals to Traffic Analysis Zones (TAZs)
- Added in future growth from approved projects inventory
- ➤ Allocated to specific areas based on General Plan data from jurisdictions (if available)
- ➤ Conserve to ABAG census tract control totals

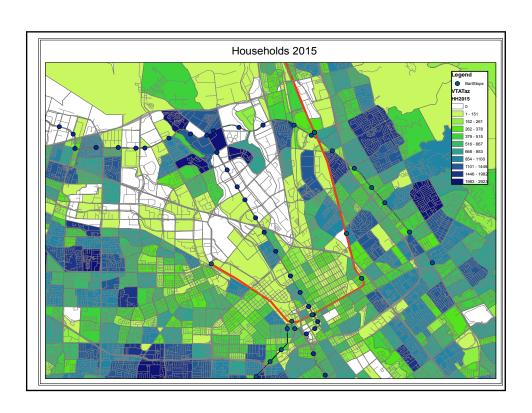


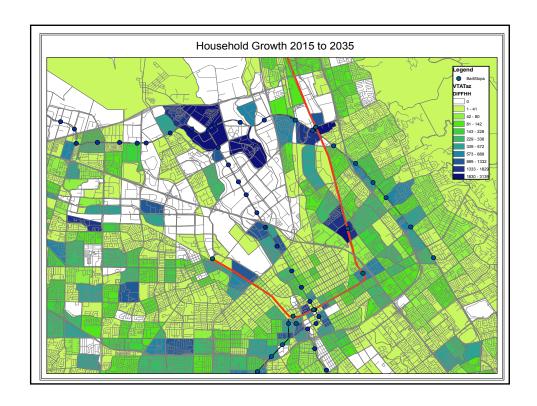


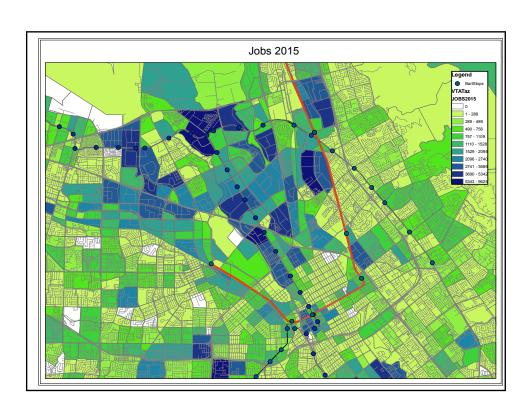


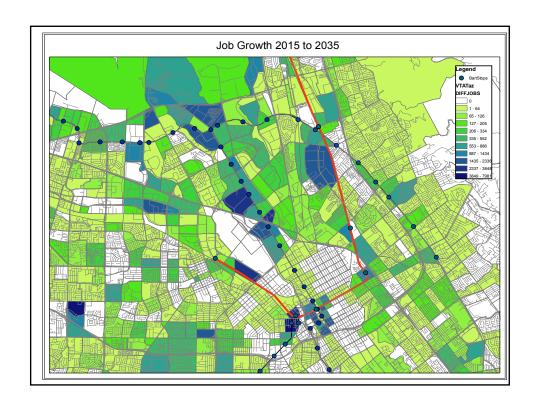


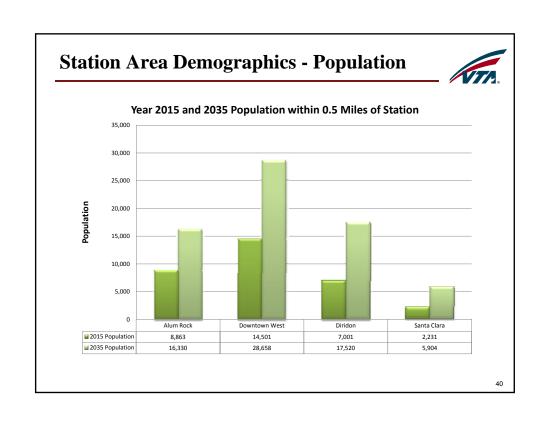


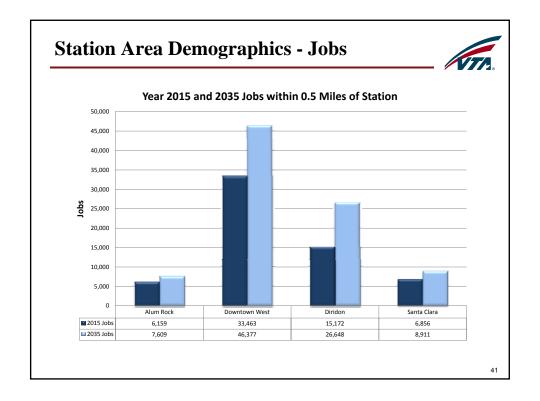












Highway and Transit Networks



➤ Highway Networks

- > Roadway attributes on network links
 - Lanes, free-flow speeds, peak hour lane capacities, etc.

> Transit Networks

- ➤ Bus service utilizes road network speeds
- ➤ Rail and Ferry services use transit links with coded speeds
- > Transit attributes include:
 - ➤ Frequencies (peak and off-peak)
 - > Fares
 - ➤ Stop/Non-stop coding
 - Access connectors (walk, transfer, park-and-ride)

Model Calibration and Validation



- > VTA Models are Calibrated to Observed Data
 - ➤ 1990 MTC Home-Interview Travel Survey for Nonwork Trips
 - ≥2010 Census Data Travel Patterns for Work Trips
- ➤ VTA Models are Validated to Observed Traffic and Transit Patterns
 - ➤ AM and PM Peak Traffic Counts
 - ➤ Daily Transit Boardings by Operator (BART, Caltrain, VTA)

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Year 2035 Forecast Networks



- ➤ Includes Funded Projects in the Adopted Regional Transportation Plan
- ➤ Major Transit Projects Include:
 - > VTA BART Extension to Silicon Valley
 - > 2-Station Phase I in 2035 No Project (existing + committed projects included)
 - ➤ 4-Station Phase II in 2035 Project
 - ➤ Caltrain Electrification and Transbay Extension
 - > VTA Light Rail Improvements
 - ➤ Capitol Corridor Extension
 - ➤ Vasona Corridor Extension
 - ➤ Alum Rock-Mountain View (Long T) Line
 - > VTA ECR and Stevens Creek BRT Corridors
- ➤ Major Highway Projects Include:
 - ➤ VTA Express Lane Corridors Countywide
 - ➤ Various Countywide Roadway Improvements

BART Silicon Valley Extension



- ➤ Model output used in all phases of Project Analysis
 - > Transit ridership
 - ➤ New transit trips and diverted transit trips
 - > Transit vehicle requirements
 - > Rail and bus vehicles
 - Station boardings by access/egress modes for station design
 - ➤ Park-and-ride spaces and required/kiss-and-ride drop-off
 - ➤ Transit transfers station design for feeder bus and shuttle access/egress

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BART Silicon Valley Extension

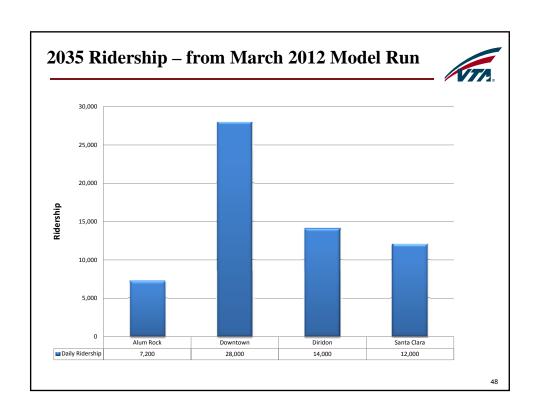


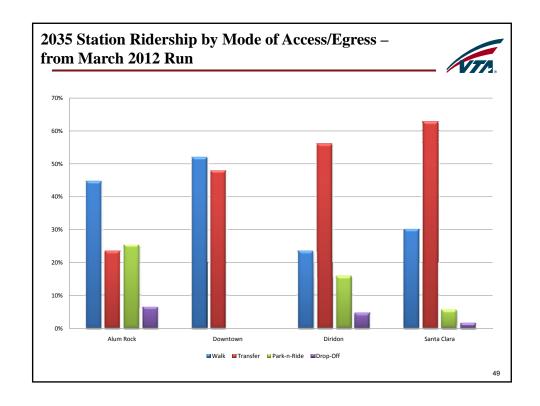
- ➤ Capital cost estimates
- ➤ Operating and maintenance cost estimates
- ➤ Traffic volumes
 - ➤ Station intersection level-of-service impacts

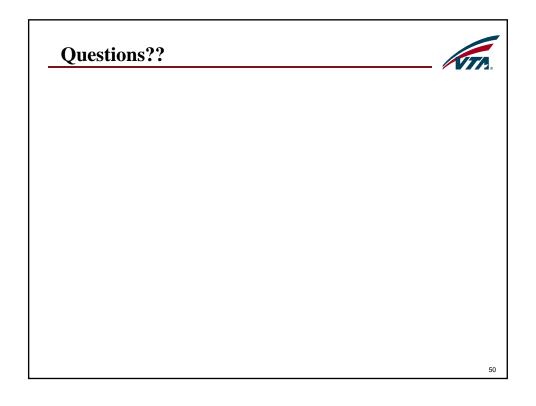
EIR and FTA Ridership Requirements



- > Transit Ridership
 - ➤ No Project and Project
 - Existing Year (2015) and 20 year horizon (2035)
 - ➤ Opening Year 2025
 - ➤ New Starts final reported ridership is calculated as 50 % of existing and 50% of horizon ridership
 - ➤ FTA requires an estimate of project ridership made by transit dependents for VTA models these are lowest income riders estimated by the models







What's Next for Ridership?



- ➤ Continue Community Outreach efforts
- ➤ Support Environmental Documentation Process 2015 → 2017
- ➤ Coordinate with FTA for Review of Ridership Forecasts $-2015 \rightarrow 2017$
- ➤ Incorporate updated ABAG Regional Growth forecasts when available (likely late 2016 → early 2017)
- ➤ New Starts Submittal (2017)

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BART Phase II Planned Land Use Framework Diridon and Downtown Downtown/Diridon Community Working Group June 9, 2015

Existing Planning Framework

Downtown Strategy 2000

- Strategy and EIR approved by Council in 2005
- Evaluated:
 - o 11.2 Million SF Office
 - _o 8,500 residential units
 - o 1.4 Million SF Retail
 - o 3,600 Hotel Rooms
- Development broken into four phases
- Transportation improvements/ mitigations identified



Downtown - Envision San Jose 2040

- General Plan Major Strategy # 9 "Destination Downtown"
- Build upon the great transit access to create a vibrant urban center
- 48,500 new jobs planned
- 10,360 new residences planned





Downtown - General Plan & Zoning

- Downtown General Plan Land Use Designation
- Downtown Core Zoning District



Diridon Station Area Plan

- Establishes land use plan and policy framework
- Maximizes development potential
- Plans for Diridon Station Expansion
- Develops model plan for pedestrian, bicycle, and transit connectivity
- Program EIR completed



Diridon Station Area Plan

Planned Development Levels

- 4.96 Million SF Office
- 420,000 SF Retail
- 2,588 Residential Units
- 900 Hotel Rooms



Diridon Station Area Plan - Northern Zone

Innovation District

- Long term development potential
- 3,000,000 SF Office
- 80,000 SF Retail
- 223 Residential Units
- Successful HP Pavilion



Diridon Station Area Plan - Central Zone

Destination Diridon

- Office, entertainment, transit
- 1,150,00 SF Office
- 140,000 Retail
- 250 Hotel
- Ballpark



Diridon Station Area Plan - Southern Zone

Diridon South

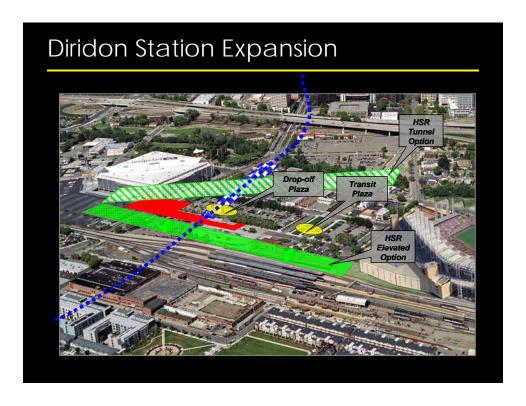
- Mixed Used Residential
- 800,000 SF Office
- 200,000 SF Retail
- 2,365 Residential Units
- 650 Hotel



Diridon Station Expansion

Goal: Expand Station to create a well-integrated center of architectural and functional significance





Transportation and Parking Strategies Iransportation System Enhance facilities for walking, biking, and transit Pursue Envision 2040 mode shift goals (20% transit, 15% bike, 15% walk) Parking Encourage best practices (unbundled parking, shared parking, car share) Parking goals only, no proposed changes to current code If more parking is built, parking would replace development

Evaluate Diridon, Airport & Santa Clara Connections

- Viability of Diridon, Airport and Santa Clara connection
 - Route, Ridership, Cost
- Range of Automated Guideway Transit Technologies
 - Automated People Mover (APM)
 - Automated Transit Network (ATN) (2012 SJ study)
 - Hybrid/Phased Approach
- Additional Connections
 - HSR Long Term Parking
 - North SJ
 - Downtown/Convention Center
- Define potential project



Plan Updates and Studies in Process

Downtown Strategy EIR Update

- Update planned residential capacity
- Remove or modify development phasing
- Update Traffic Analysis
- Consider revised mitigations and funding
- Consider policies to reserve areas adjacent to BART for employment uses



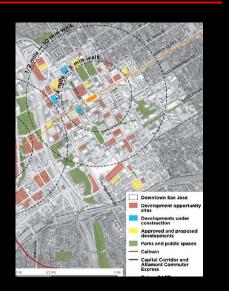
BART Phase II - Development Impact Study

- Identify anticipated impacts of BART upon development
- Evaluate existing land use plans and real estate market
- Identify opportunities/mechanisms to catalyze development
- Suggest changes to existing land use plans

BART Phase II - Access & Connectivity Study

Integrate BART Station into the Surrounding Environment

- Maximize Ridership
- Connect Seamlessly to Feeder Systems
- Enhance the Quality of Street Life
- Encourage Foot Traffic & Business Vitality



BART Phase II - Access & Connectivity Study

Study Process

- Walk Audit & Workshop with Community Stakeholders (You!)
- Three-Day Charette
- Documentation of Stakeholder Input & Charette Outcomes

Save the Date: Tuesday, July 21st









Discussion

Eileen Goodwin, Facilitator

Next Steps



- Next meeting: Tuesday, August 11, 2015 ~ 4:00-6:00 PM,
 San Jose/SV Chamber of Commerce ~ BYOB
 - Financial Analysis of BART Phase II (VTA staff & Ernst and Young)
 - City related projects within the BART corridor (City of San Jose staff)
 - VTA related projects within the BART corridor (VTA staff)
 - Economic Analysis surrounding BART stations (SPUR staff)
 - Envision project update (VTA staff)
- Parking validation
- · Action Items