



CALIFORNIA
High-Speed Rail Authority

SAN FRANCISCO TO SAN JOSE PROJECT SECTION

**San Francisco Community Working Group Meeting
August 4, 2016**



INTRODUCTIONS

Eric Poncelet

AGENDA REVIEW

- **CWG Purpose & Role**
- **San Francisco to San Jose Project Section Update**
- **Environmental Process Update**
- **Community Priorities Exercise**
- **Public Comment**
- **Next Steps**

CWG PURPOSE & ROLE

Eric Poncelet

COMMUNITY WORKING GROUPS (CWG)

- Purpose

- » Present project alternatives to members for meaningful feedback
- » Access to Authority environmental and engineering technical staff
- » Collaborative engagement on environmental and engineering work
- » Move the environmental process forward in the spirit of cooperation

- Membership and Responsibilities

- » Broad spectrum of community representatives
- » Consider/present the interests of their respective communities/organizations
- » Participate in open communication among different interests
- » Help move the planning process forward in the spirit of cooperation

**SAN FRANCISCO TO SAN JOSE
PROJECT SECTION UPDATE**

Will Gimpel

SAN FRANCISCO TO SAN JOSE: Project Description



- 51-mile corridor
- Blended Service on Electrified Caltrain Corridor
- Stations Being Studied:
 - » 4th and King (San Francisco)
 - » Millbrae-SFO
 - » San Jose (Diridon)

SAN FRANCISCO TO SAN JOSE: Project Description

- **Alignment defined by state legislation and regional, multi-agency agreements**
- **Blended service with Caltrain and high-speed rail service sharing tracks**
- **Approach minimizes impacts on surrounding communities, reduces project cost, improves safety and expedites implementation**
- **High-Speed Rail Design supports 30-Minute Travel**

DESIGN CONSIDERATIONS

Dom Spaethling

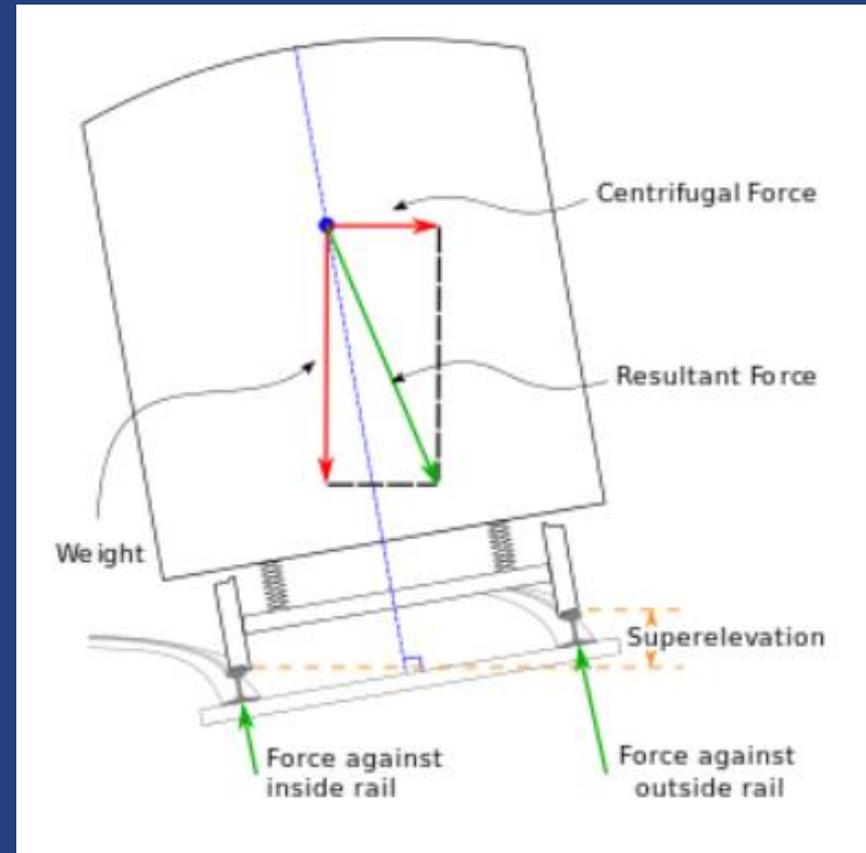
SAN FRANCISCO TO SAN JOSE: Proposed Alternatives

- **Proposed Operations**

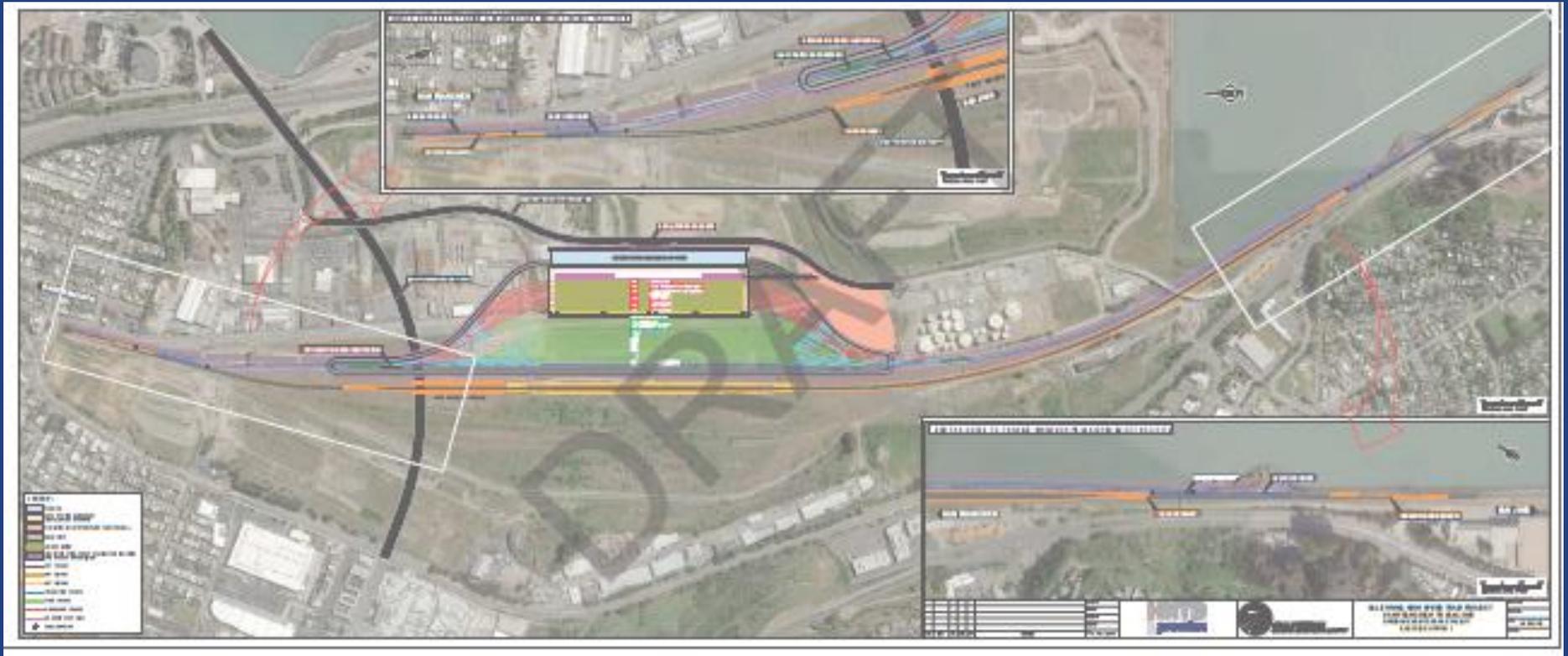
- » High-Speed Rail vehicles operating with Caltrain predominantly within the Caltrain Right-of-Way
- » Speeds up to 110 miles per hour
- » Four High-Speed Trains Per Direction in the Peak Period Per Hour
- » Operations Plan that would allow for up to six commuter trains per direction in the peak period and up to four high-speed trains per direction in the peak period
- » Right-of-Way acquisition may be required in certain locations

SAN FRANCISCO TO SAN JOSE: Curve Modifications

- **Superelevation – Increase supports higher speeds**
 - » Increase in superelevation (tilt) of the tracks offsets the centrifugal force going around a curve.
 - » There are maximum values for superelevation governed by FRA and AREMA standards.
 - » CHSRA and Caltrain follow the FRA and AREMA standards.
 - E_a (Applied Superelevation) – 6" max (physical tilt)
 - E_u (Unbalanced Superelevation) – 7" max (passenger comfort tilt)



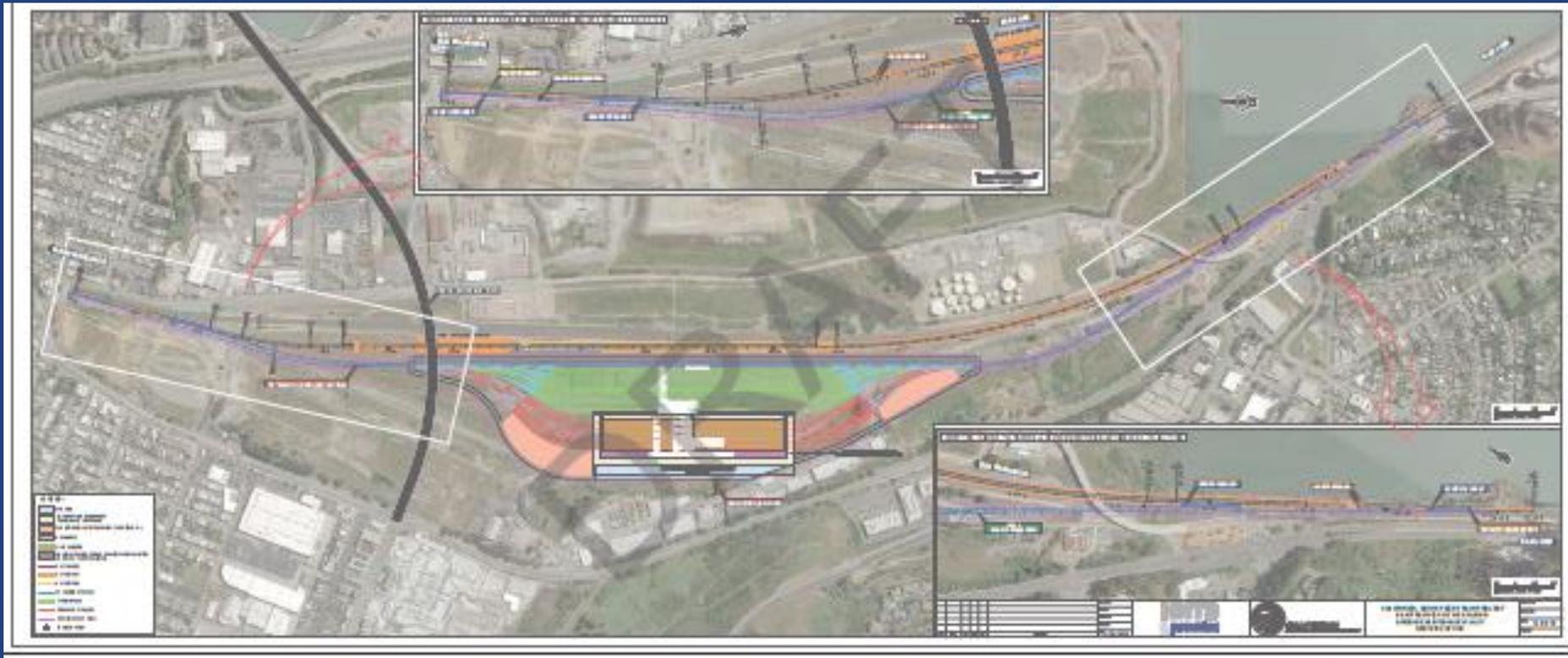
SAN FRANCISCO TO SAN JOSE: Potential Light Maintenance Facility*



EAST SIDE

*Potential facility placement would be either East or West of Caltrain tracks

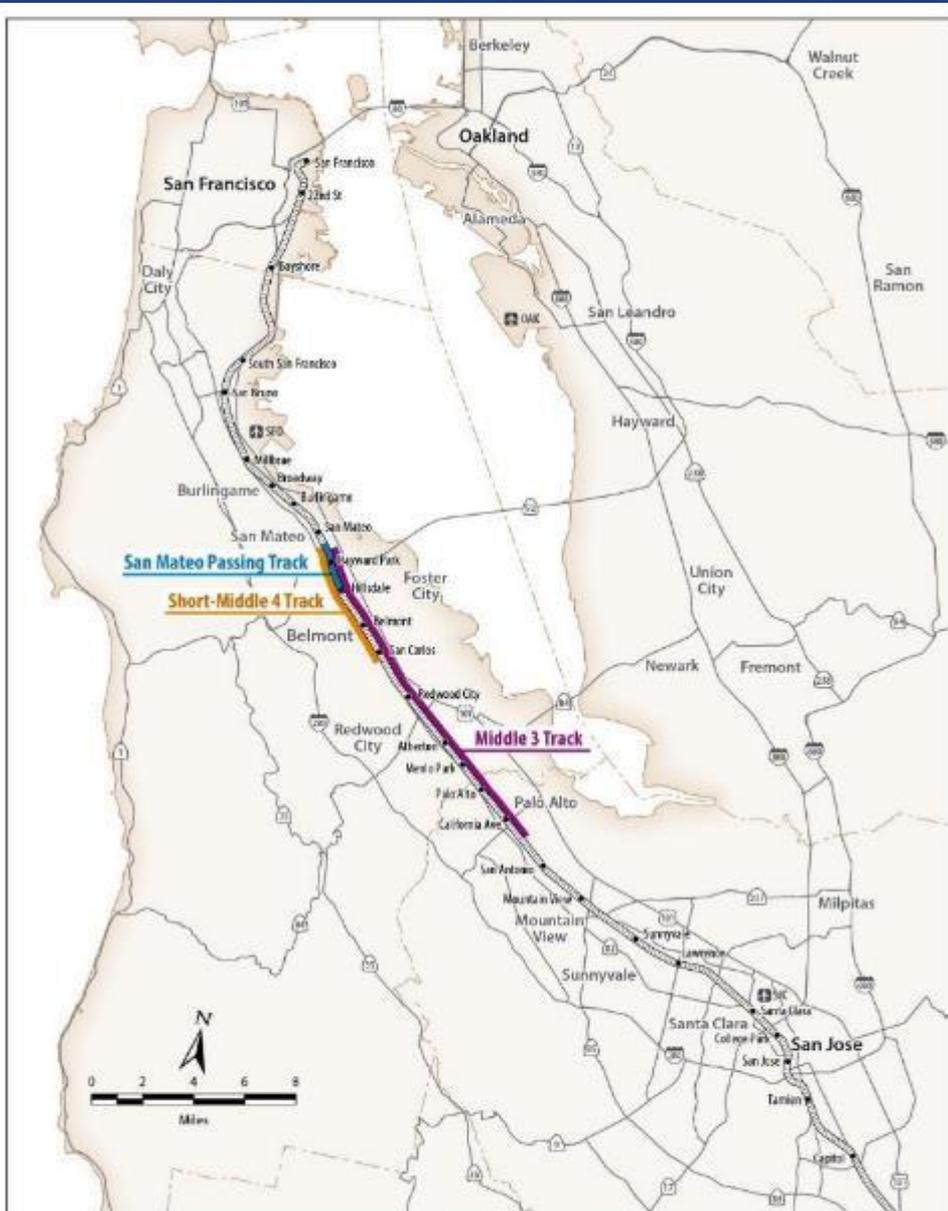
SAN FRANCISCO TO SAN JOSE: Potential Light Maintenance Facility*



WEST SIDE

*Potential facility placement would be either East or West of Caltrain tracks

SAN FRANCISCO TO SAN JOSE: Potential Passing Track Locations



Preliminary Passing Tracks Under Consideration (Subject to Change)

- **Three Potential Sets Under Consideration**
 - » San Mateo Overtake (Hayward Park to Hillsdale)
 - » Short Middle Four Track Overtake (Hayward Park to San Carlos)*
 - » Middle Three Track Overtake (Hayward Park to California Ave.)*

**See Caltrain/HSR Blended Service Plan Operations Considerations Analysis (June 2013) Available on Caltrain's Website*

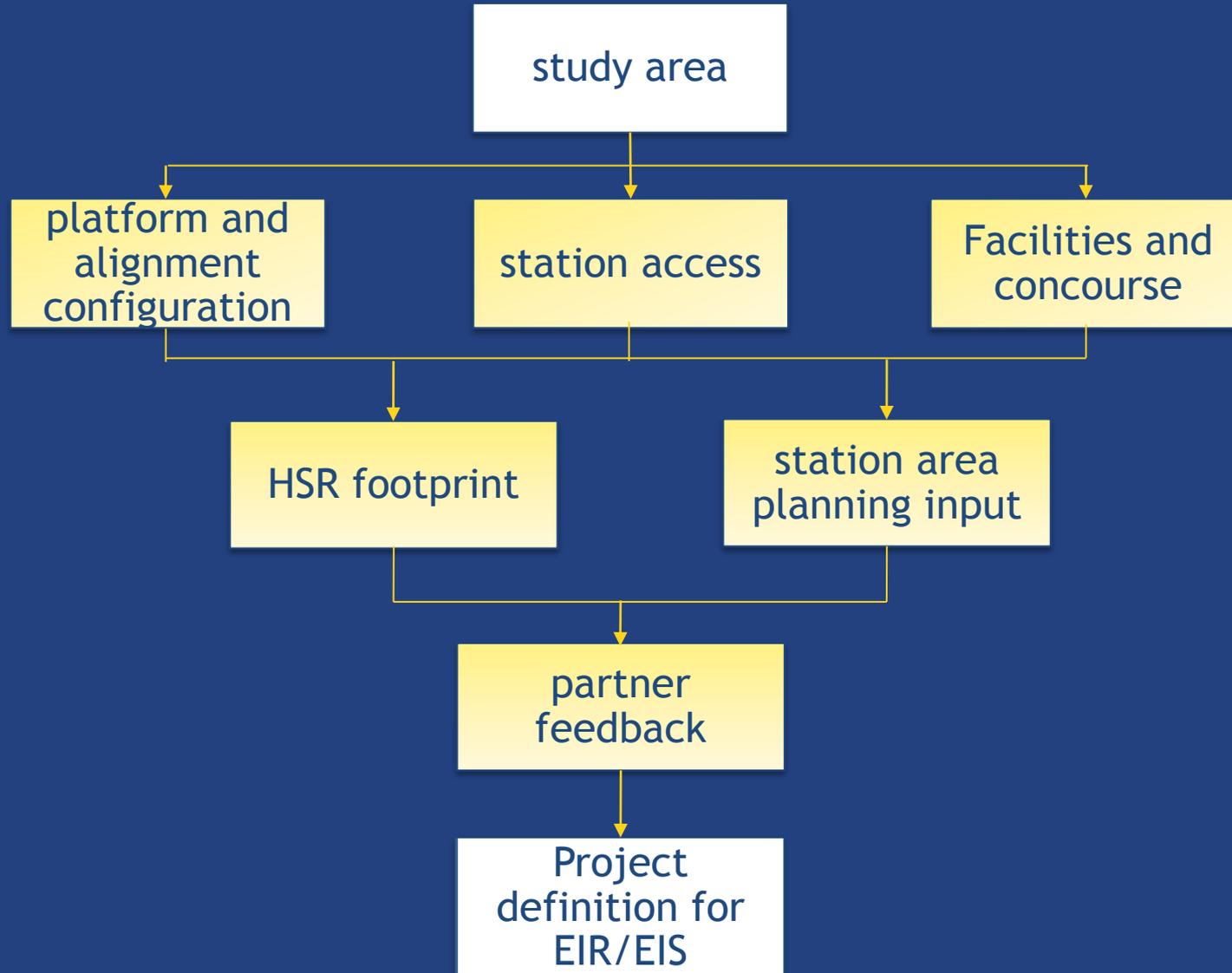
HIGH-SPEED RAIL STATION PLANNING EFFORTS

Bruce Fukuji

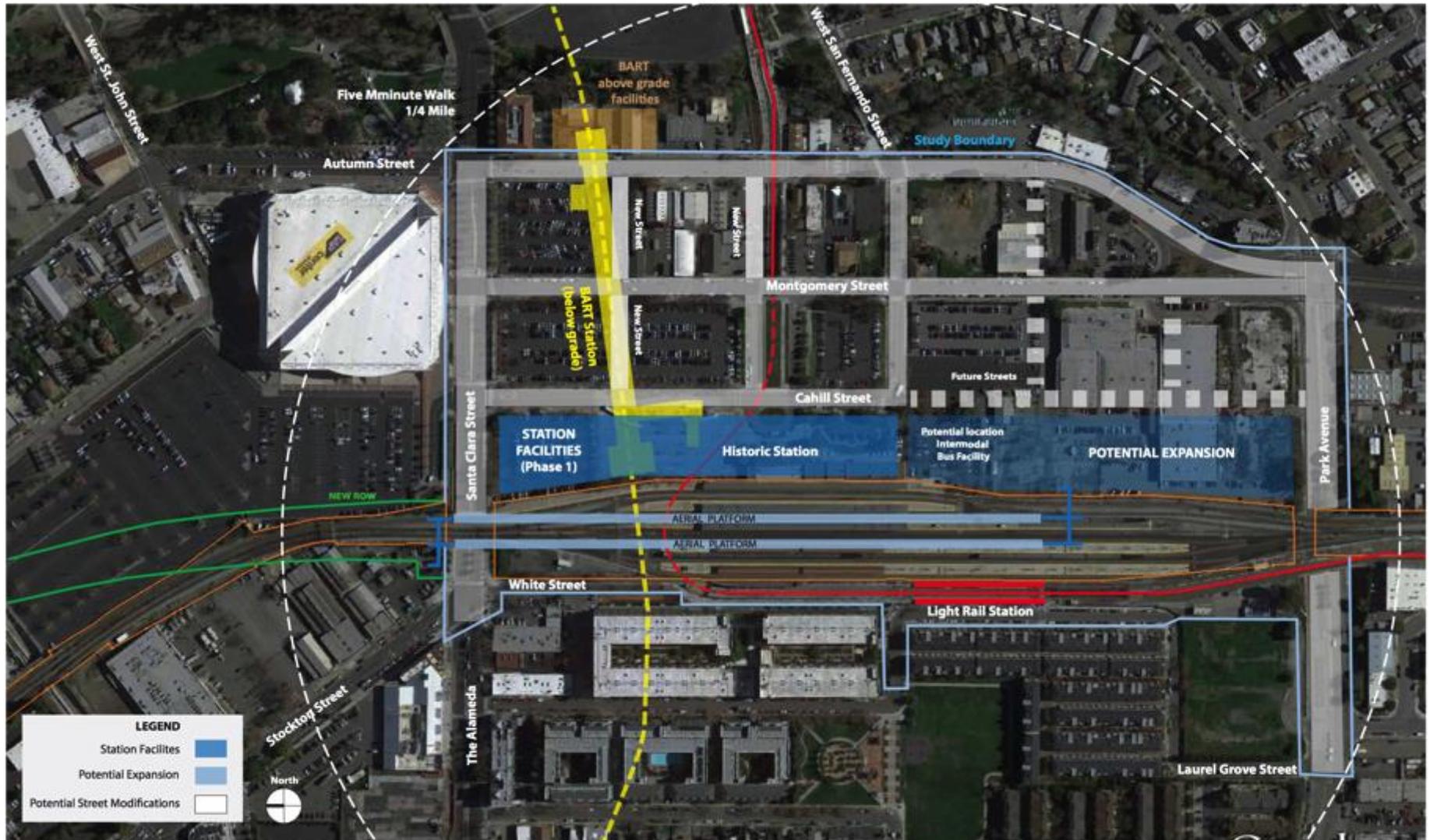
HIGH-SPEED RAIL STATION PLANNING UPDATE

- Status of High-Speed Rail Station Planning
- Refinements to San Jose Station Environmental Footprint
- Station Access -- Mode Share Analysis

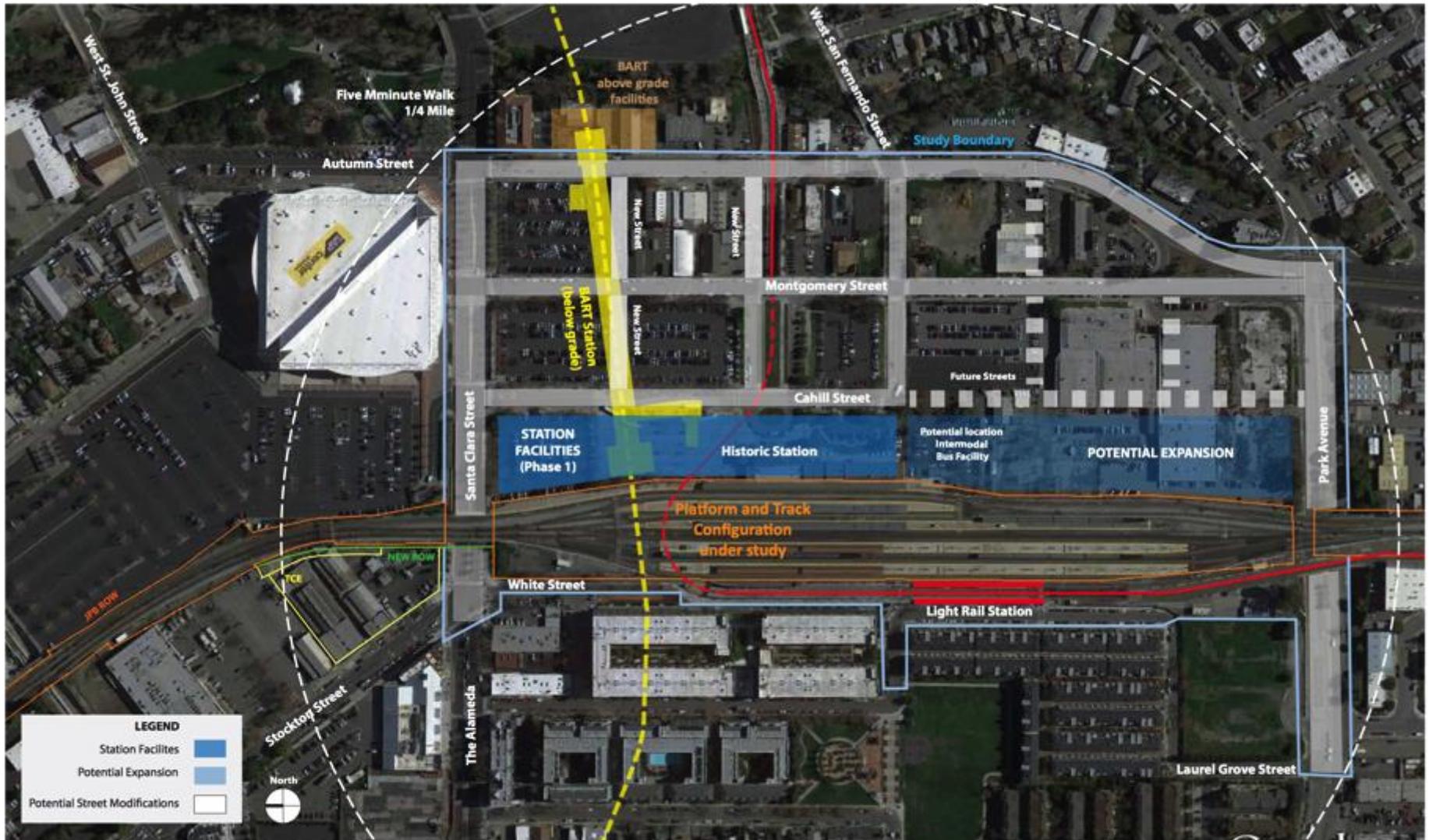
HIGH-SPEED RAIL STATION PLANNING PROCESS



SAN JOSE STATION (DIRIDON): Aerial Alternative



SAN JOSE STATION (DIRIDON): At Grade Alternative



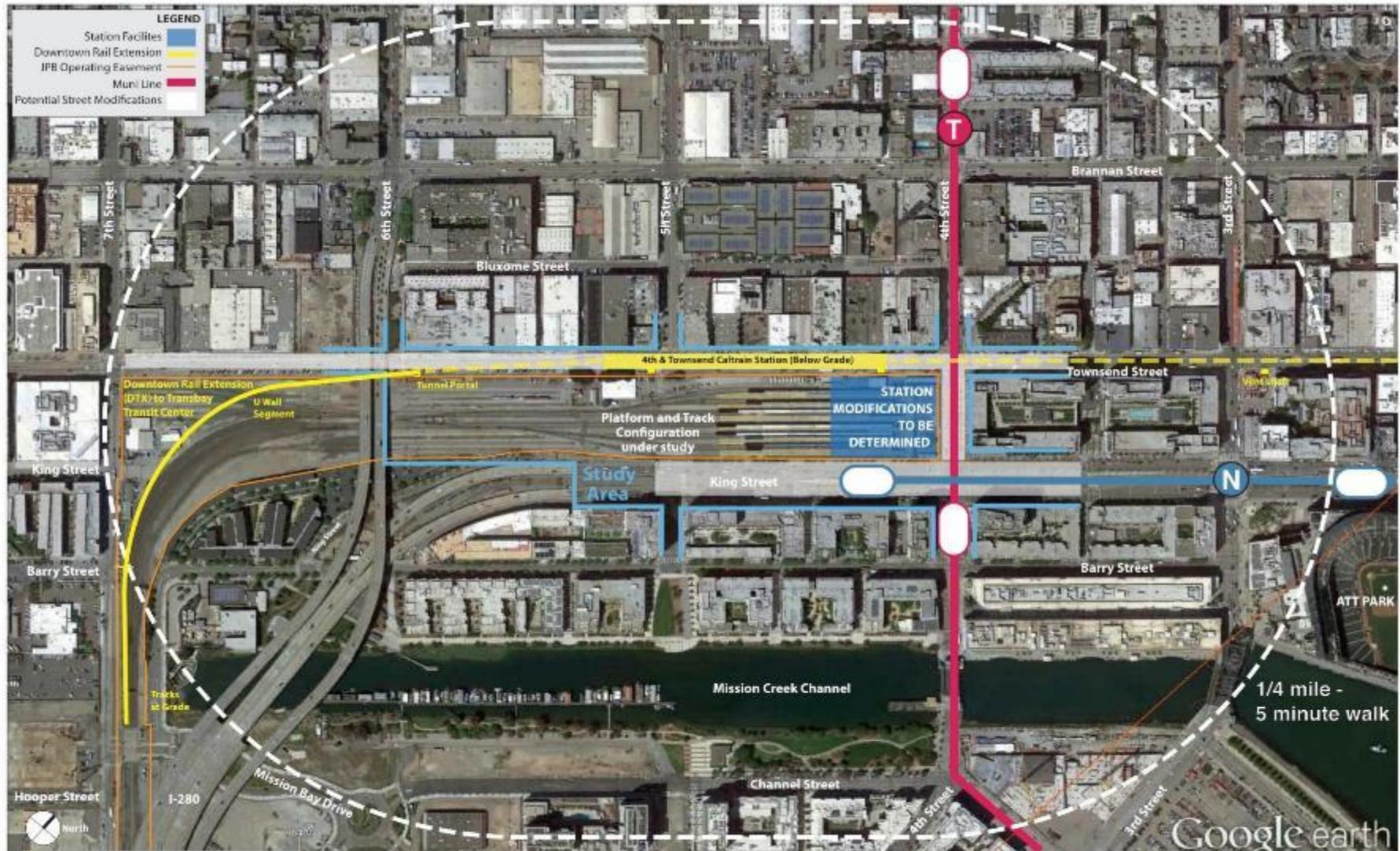
ALTERNATIVE 1 - FOOTPRINT



SAN FRANCISCO TO SAN JOSE: Millbrae (SFO) Station



SAN FRANCISCO TO SAN JOSE: 4th & King Station



HIGH-SPEED RAIL STATION ACCESS: Adjusting Mode Share for Station Planning and Environmental Analysis

Statewide station ridership projections need to account for:

- Local and regional factors influencing travel behavior
- Existing and planned transportation network and land use change
- Station partner experience and policies

Adjustments:

- Transit access
- Unconstrained parking
- Bike/Walk
- Auto Access

Data:

- » 2016 Business Plan ridership model
- » Transit agency survey data
- » Local agency planning data

SAN FRANCISCO TO SAN JOSE: TTC & DTX

- **Transbay Transit Center (TTC) & Downtown Extension (DTX)**
 - » Project to reach the Transbay Transit Center via the planned Downtown 1.3-mile extension
 - » Construction of the TTC is projected to be completed in 2017
 - » Rail service to the TTC will not begin until the DTX is complete
 - » Current San Francisco 4th & King Station to operate as interim station



SAFETY MODIFICATIONS

Will Gimpel

SAN FRANCISCO TO SAN JOSE: Safety Modifications

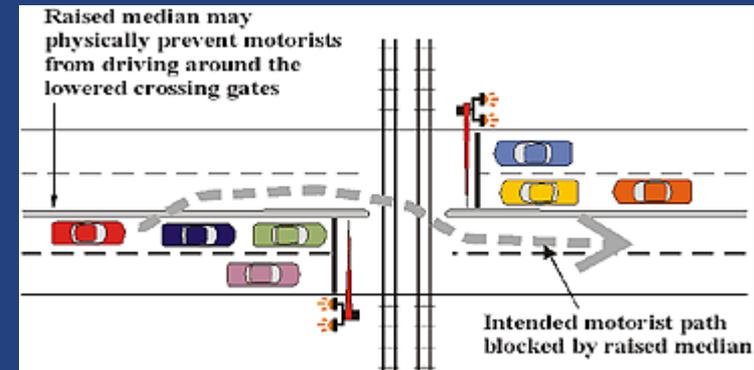
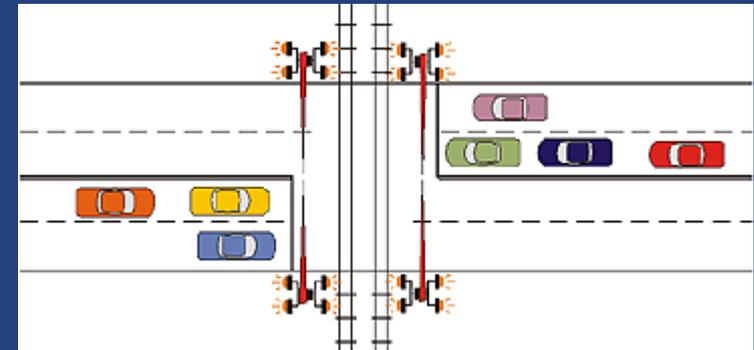
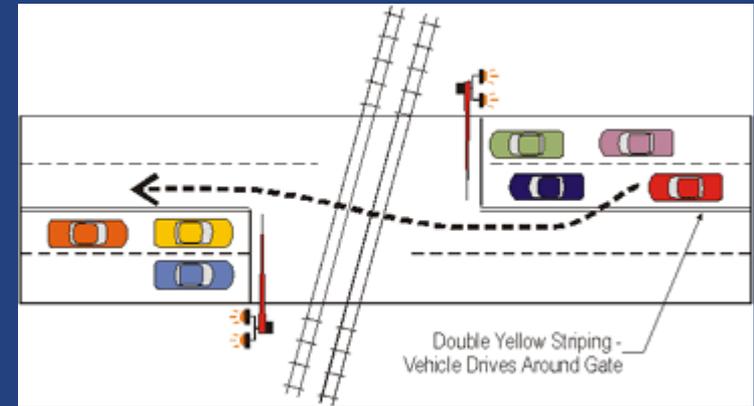
- **Safety is the Authority's Number-One Priority**

- » Installing perimeter fencing and implementing four-quadrant gates at all at-grade crossings

- » Contributing to the construction of three new grade separations in San Mateo:

- 25th, 28th, & 31st Avenues

- » EIR/S will analyze safety impacts of the project

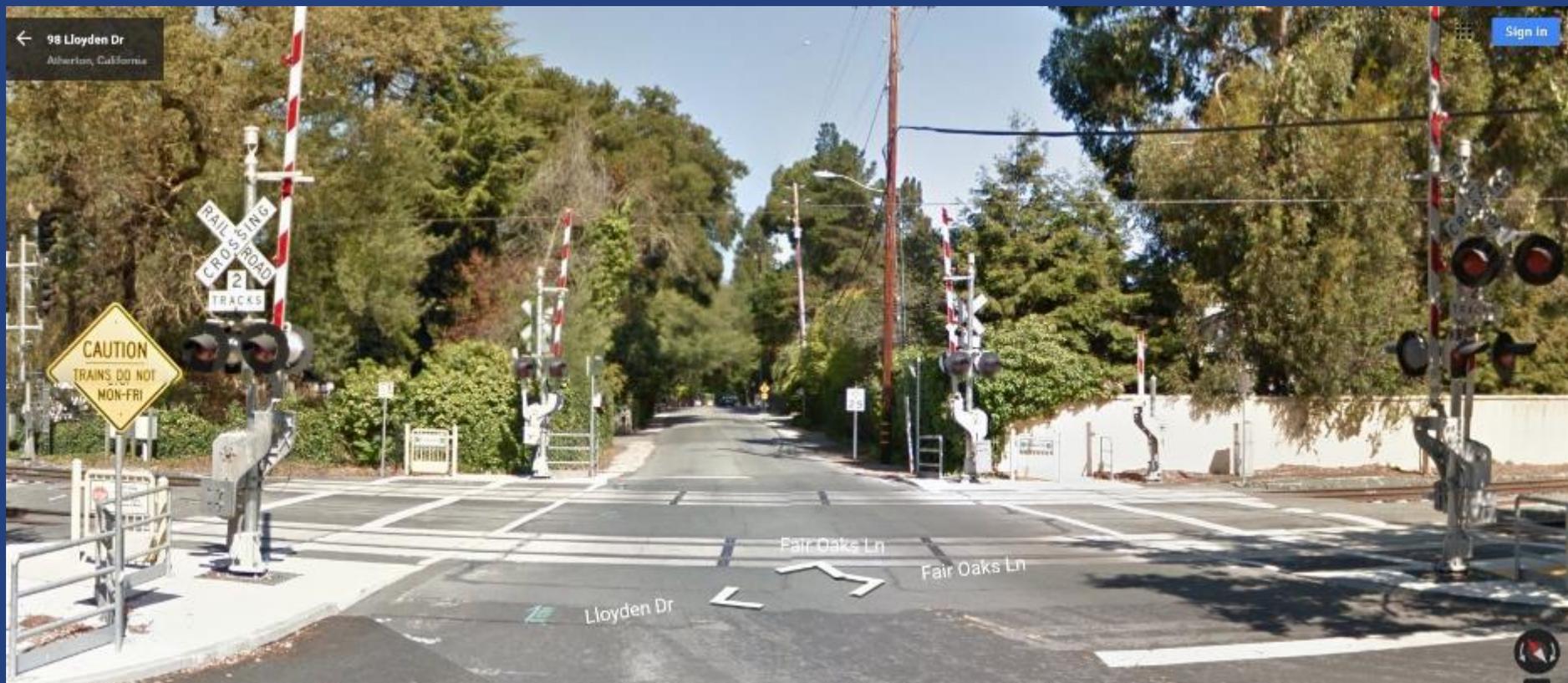


SAN FRANCISCO TO SAN JOSE: Grade Separations

- We will be a partner with the Metropolitan Transportation Commission (MTC) to develop a long-term grade-separation strategy for the peninsula corridor

SAN FRANCISCO TO SAN JOSE: 4-Quad Gate

- Example of 4-Quad Gates at Fair Oaks Lane in Atherton
 - » Fair Oaks Lane, MP 27.8
 - » Existing 4-quad gates
 - » Requested by Atherton
 - » No channelization



SAN FRANCISCO TO SAN JOSE: Channelization



SAN FRANCISCO TO SAN JOSE: Fencing



ENVIRONMENTAL PROCESS UPDATE

Rich Walter

SCOPING UPDATE: Current Status

- **Notice of Intent (NOI)/Notice of Preparation (NOP) Issued on May 9***
- **Comment Deadline: July 20**
- **Three Scoping Meetings in May**
 - » Over 160 stakeholders attended
- **Scoping Report Development**
 - » Complete synthesis of all comments received and outreach completed during Scoping process
 - » Finalized and released in September 2016

KEY SCOPING COMMENTS

- Traffic effects due to increased gate-down time at the at-grade crossings
- Noise effects due to increased number of trains
- Safety effects due to increased trains and speeds
- Impact on roadways, bicycle, and pedestrian connections and public access
- Emergency response time effects due to traffic effects
- Need for grade separations and quiet zones
- Location and Impacts of passing tracks
- Air quality due to traffic effects, passing trains
- Division of existing communities
- Visual aesthetic effects
- Biological resource effects
- Social equity effects
- Impact on transit services and facilities (Caltrain, BART)
- Construction impacts (Noise, Air Quality, Traffic, Transit Services)

KEY SCOPING COMMENTS

- Station Area design and effects (traffic, transit, pedestrian/bike access, land use)
- Maintenance facility effects
- Impact on freight operations and facilities (including EMI), UPRR operating rights, and secondary impacts of reducing freight
- Public services/utilities effects
- Right of way acquisitions and property value effects
- Growth inducement
- Sea level rise
- Cumulative effects (land use, BART, Dumbarton Corridor, etc.)
- Timing of environmental review (speed/duration)
- Environmental review process (involvement of local jurisdictions/agencies, timing for preferred alternative, context sensitive solutions, etc.)
- Project cost and funding

KEY SCOPING COMMENTS: Suggested Alternatives

- Elevated vs. Aerial vs. Tunnel Options for San Jose Approach/Diridon
- Grade Separate some or all of the Caltrain corridor; Grade Separate before Caltrain electrification; Use higher grades (2%) and lower clearances (freight) for grade separations; and/or Underground some of all of the Caltrain corridor
- System-wide shared level boarding
- Modify hold-out rule stations to eliminate hold-out rule
- Maintenance facility location(s) other than Brisbane
- DTX alternatives from the City of San Francisco RAB study
- Mid-Peninsula HSR Station
- 4-track through Caltrain station as bypass
- Increase speeds >110 mph
- Eliminate or modify freight service
- Technology Alts.: Hyperloop, 1.5 kVDC, include renewable energy along route
- Off-corridor Alts.: 101 or east of 101, East Bay
- End HSR at San Jose/Use Caltrain to reach SF

MILESTONE SCHEDULE*



*Preliminary/Subject to Change

ENVIRONMENTAL REVIEW PROCESS: Next Steps

- **The Authority and the FRA are jointly preparing environmental documents for the high-speed rail program in accordance with NEPA and CEQA**
 - » NEPA is the federal National Environmental Policy Act
 - » CEQA is the California Environmental Quality Act
- **We have established a schedule to complete the environmental process by December 2017 for all project sections**

ENVIRONMENTAL REVIEW PROCESS: Next Steps

- **The Authority and FRA intend to identify a preliminary preferred alternative in the Draft EIR/EIS**
- **Past practice has been to identify the preferred alternative after the Draft EIR/EIS -- and before the Final**
- **FRA/CHSRA changing process to conform with federal guidance and leverage key provisions in federal transportation statute (*MAP-21*)**
- **The United States Department of Transportation (USDOT) encourages agencies to identify a preliminary preferred alternative in the draft environmental document**

ENVIRONMENTAL REVIEW PROCESS: Next Steps

- **This has been standard procedure for other USDOT sponsored projects for many years**
- **It is also consistent with how California agencies implement CEQA**
- **Identifying a preliminary preferred alternative in the Draft EIR/EIS provides the opportunity for earlier, more focused review and comment on that alternative -- in addition to the other alternatives in the Draft EIR/EIS**
- **Identifying a preliminary preferred alternative at the Draft stage does not in any way represent a final decision which can -- and will -- only be made at the conclusion of environmental review**

ENVIRONMENTAL REVIEW PROCESS: Next Steps

- **Before the Draft EIR/EIS is issued, staff will begin developing a preliminary preferred alternative which will:**
 - » Be based on analysis completed to date, and
 - » Reflect public and stakeholder input to date
- **Staff will conduct public outreach to review what it anticipates recommending to the Board of Directors and to keep the public informed about the process and next steps**
- **Staff will present its recommendation to the Board for consideration**
- **The Board will either concur with staff's recommendation or modify it**
- **The preliminary preferred alternative identified by the Board will be included in the Draft EIS/EIR which will be issued for public comment**

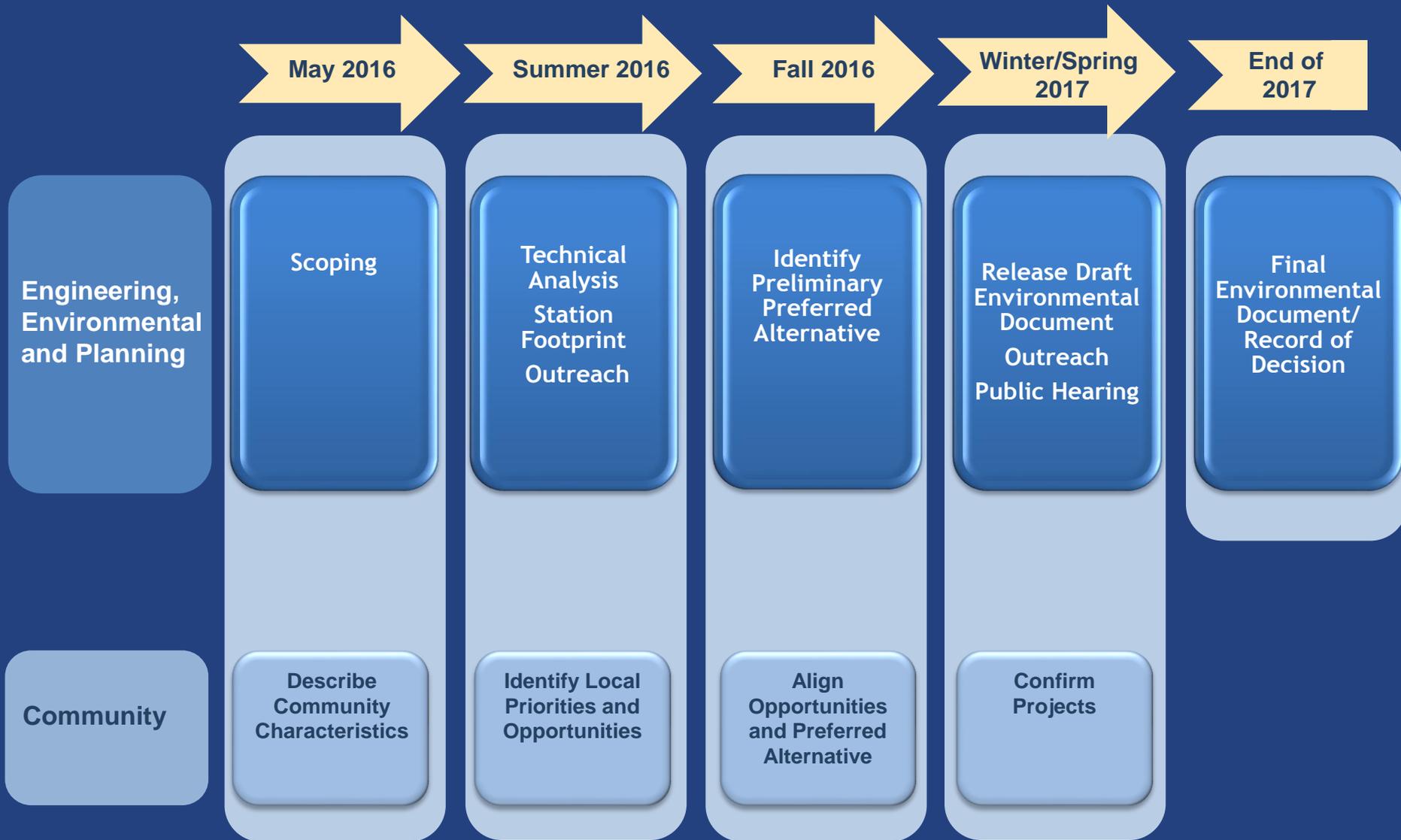
COMMUNITY PRIORITIES EXERCISE

Bruce Fukuji

COLLABORATIVE APPROACH BALANCES MULTIPLE PRIORITIES



MILESTONE SCHEDULE & COMMUNITY ENGAGEMENT– SF TO SJ*



WORKING GROUP PROCESS

Today's Exercise

Identify
Objectives
& Develop
Criteria

Detailed
Project/
Program
List

Community
Prioritized
Project/
Program
List



WORKING GROUP EXERCISE: EXAMPLE FROM EDISON

Ranking

- **Improve Mobility**

- » Improve connectivity and accessibility _____ #####
- » Improve pedestrian and bicycle access _____ #####
- » Enhance mobility choices and efficiency _____ #####
- » Increase HSR ridership _____ ###

- **Improve Environment**

- » Clean air _____ ###
- » Clean water _____ #####
- » Enhance natural resources _____ ###
- » Reduce waste _____ ###
- » Achieve climate goals _____ #####

- **Improve Economy**

- » Increase HSR potential to improve economy _____ ###
- » Promote economic development _____ #####
- » Increase opportunities to access jobs and quality education _____ #####
- » Leverage economic resources _____ ###

- **Improve Community Livability, Especially in Disadvantaged Communities**

- » Increase access, availability, and diversity of community resources _____ #####
- » Safe and healthy neighborhoods _____ #####
- » Improve visual and audible attractiveness and desirability of the public realm _____ ###
- » Increase attractiveness and desirability of parks and open space _____ ###

- **Other**

- » _____
- » _____
- » _____
- » _____
- » _____

PUBLIC COMMENT

Eric Poncelet, Facilitator

NEXT STEPS

- **Late September/Early October 2016: SF-J CWG Meetings #2**
- **October 2016: Community Open Houses**
- **Ongoing Activities:**
 - » Local Policy Maker Group Meetings: Thursday, July 28th 6-8pm
 - » Environmental Justice Outreach Events
 - Interviews with EJ leaders and communities
 - Participating in events such as Farmer's Markets, community meetings, etc.
 - » Permission-to-Enter Process
 - » Station Planning Group

THANK YOU & STAY INVOLVED

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