RAILYARD ALTERNATIVES & I-280 BOULEVARD (RAB) FEASIBILITY STUDY PHASE I: PRELIMINARY OPTIONS ANALYSIS

San Francisco Planning Department SFCTA Board of Directors – April 26, 2016



ABOUT THE STUDY

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BACKGROUND: WHY THIS STUDY NOW - MAJOR PIECES OF NEW INFRASTRUCTURE PLANNED







Transbay Transit Center (under construction Jan 2016)

BACKGROUND: CALIFORNIA HIGH SPEED Rail Authority (CHSRA) — 2016 Draft Business Plan

- Silicon Valley to Central Valley
 - Operational by 2025
 - San Jose North of Bakersfield
 - \$20.7Billion Fully Funded
- Extension to San Francisco and Bakersfield
 - Operational by 2025
 - Additional \$2.9Billion
- San Francisco LA/Anaheim
 - Operational by 2029





Potential Grade-Separation of 16th Street



Potential Grade-Separation of Mission Bay Drive Source: CHSRA, 2010



WHAT MIGHT A TRENCHED STREET LOOK LIKE?





Near West Oakland Bart Station – 7th Street

MOVING CHALLENGES TO OPPORTUNITIES

STAND-ALONE PROJECTS

COORDINATE PARTNER EFFORTS

IMPROVE LOCAL AND REGIONAL CONNECTIONS

CONSIDERATION OF BENEFITS/IMPACTS

TEARS IN THE URBAN FABRIC

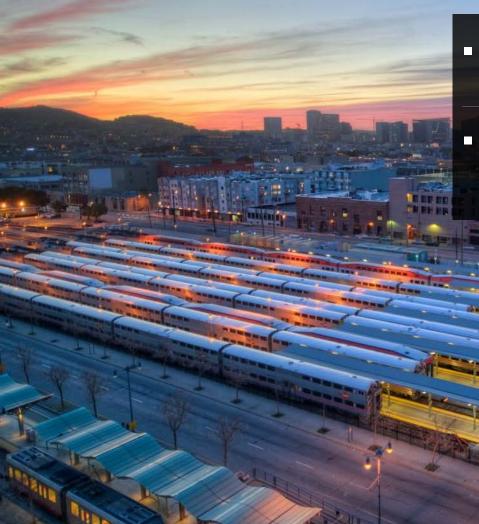
KNIT TOGETHER CITY FABRIC

UNPLANNED CHANGE

PLACEMAKING

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STUDY GOALS



- Understand and coordinate the projects holistically.
- Help shape the urban environment for the public's benefit.



RAB STUDY COMPONENTS

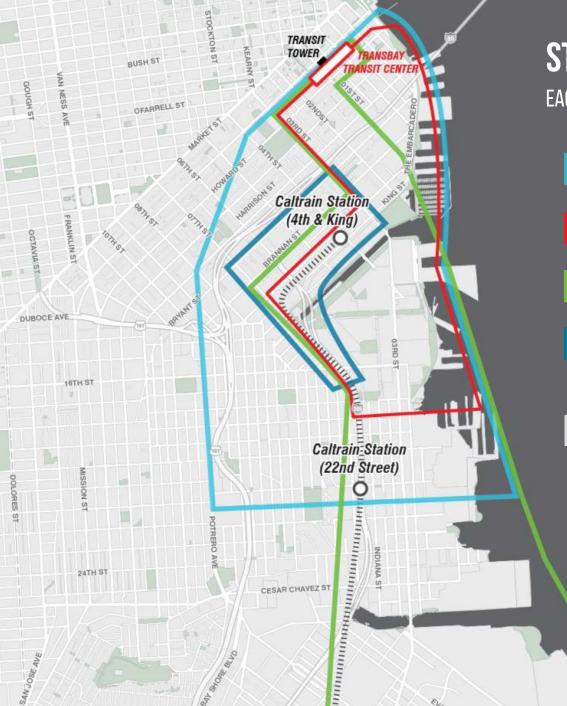
1. DOWNTOWN RAIL EXTENSION (DTX) ALIGNMENT

2. TRANSBAY TRANSIT CENTER LOOP

3. RAILYARD RECONFIGURATION/RELOCATION

4. BOULEVARD I-280

5. OPPORTUNITIES FOR THE PUBLIC'S BENEFIT

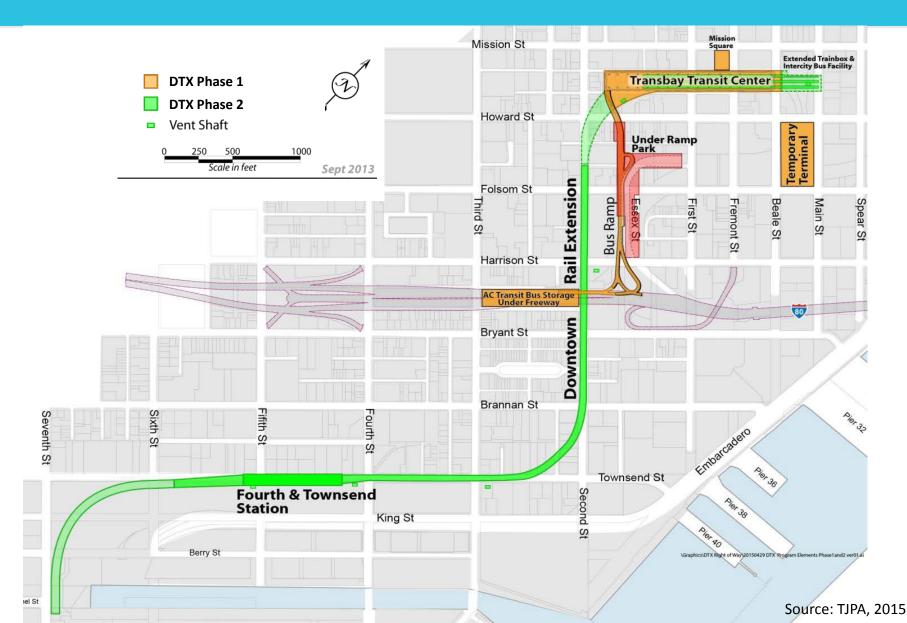


STUDY AREA EACH COMPONENT HAS ITS OWN STUDY AREA

- 1. DOWNTOWN RAIL EXTENSION (DTX) ALIGNMENT
- 2. TRANSBAY TRANSIT CENTER LOOP
- 3. RAILYARD RECONFIGURATION/RELOCATION
- 4. BOULEVARD I-280

5. OPPORTUNITIES FOR THE PUBLIC'S BENEFIT

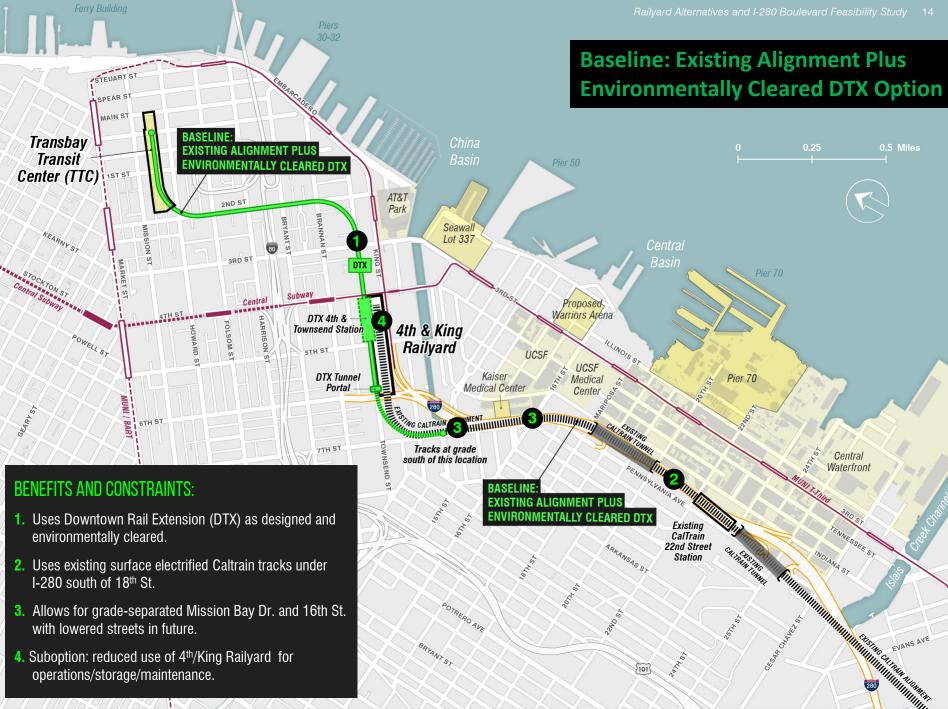
1. DOWNTOWN RAIL EXTENSION (DTX) ALIGNMENT - ANTICIPATED



1. DOWNTOWN RAIL EXTENSION (DTX) ALIGNMENT

OPTIONS FOR ALIGNMENT

- A. Baseline: Existing Alignment Plus Environmentally Cleared DTX A.2 SubOption: Reduced 4th/King footprint
- **B. Tunnel Under Existing Alignment**
- C. Pennsylvania Avenue
- **D.** Mission Bay (Third Street)



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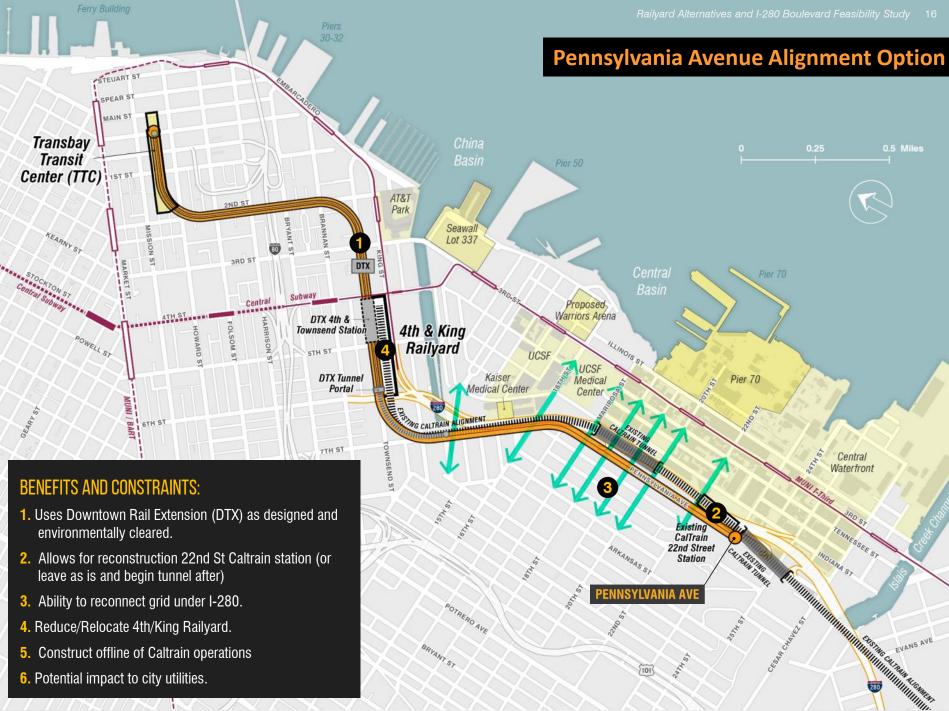
- with lowered streets in future.
- 4. Suboption: reduced use of 4th/King Railyard for operations/storage/maintenance.



BENEFITS AND CONSTRAINTS:

- 1. Uses Downtown Rail Extension (DTX) as designed and environmentally cleared.
- 2. Grade separated Caltrain/HSR under Mission Bay Dr. and 16th St.
- 3. Ability to reconnect grid under I-280.
- 4. Reduce/Relocate 4th/King Railyard .
- 5. Requires major structural work of I-280 pillars before tunnel can be built.
- 6. Requires Caltrain to be out of service for 6+ months.



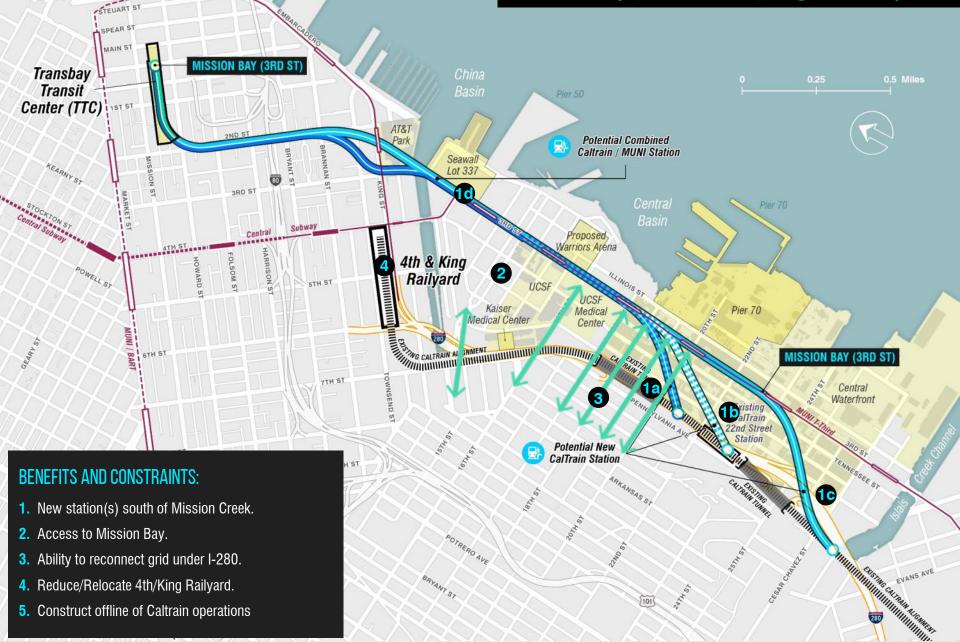


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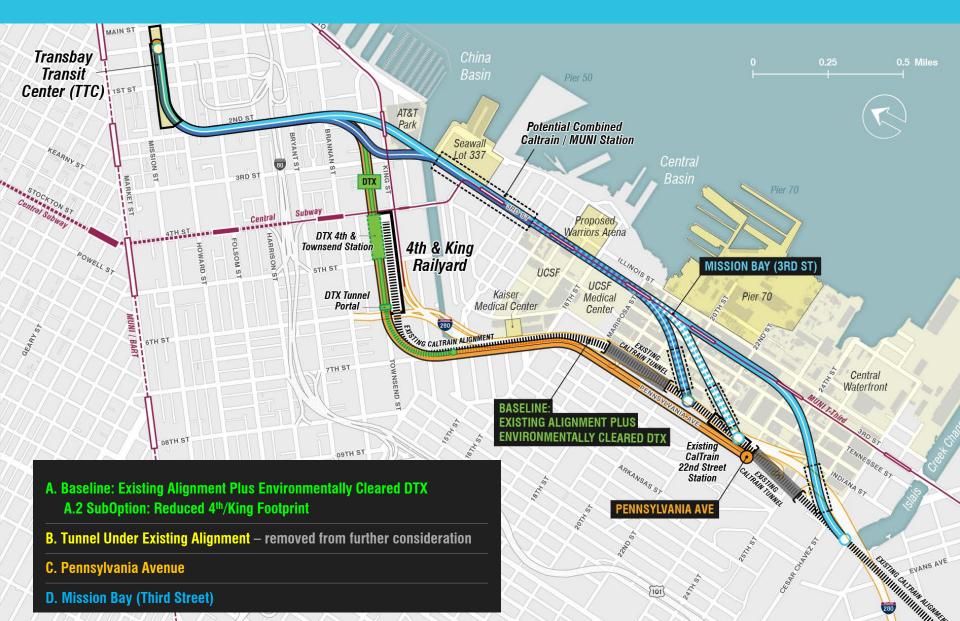
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- 4. Reduce/Relocate 4th/King Railyard.
- 5. Construct offline of Caltrain operations
- 6. Potential impact to city utilities.

Mission Bay (Third Street) Alignment Option



1. OPTIONS FOR DOWNTOWN RAIL EXTENSION (DTX) ALIGNMENT - SUMMARY

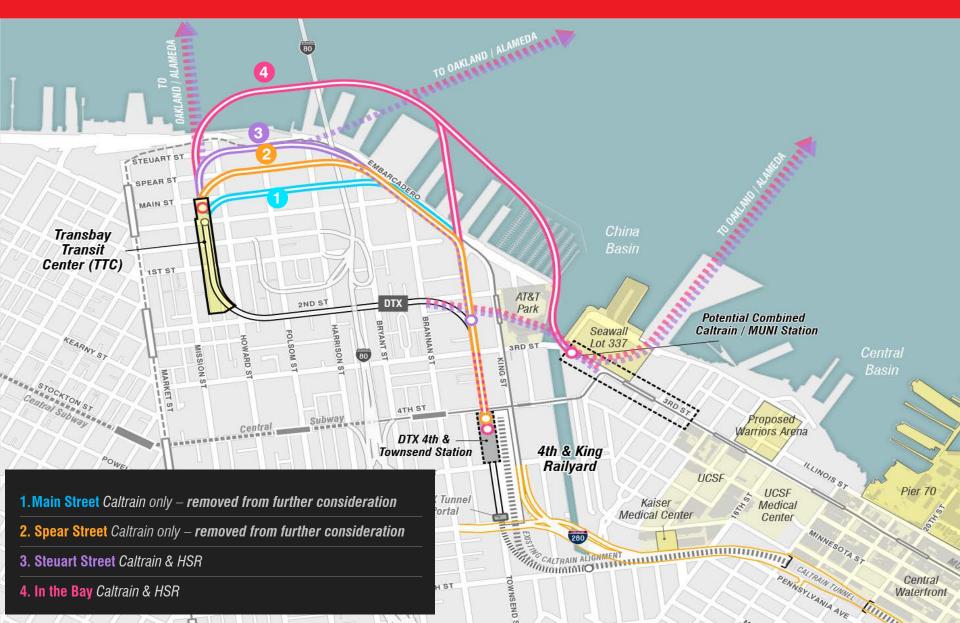


2. TRANSBAY TRANSIT CENTER LOOP

OPTIONS

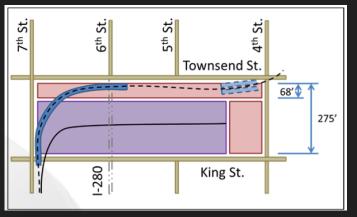
- **1. Main Street** Caltrain only
- **2. Spear Street** Caltrain only
- **3. Steuart Street** Caltrain & HSR
- **4. In the Bay** Caltrain & HSR

2. TRANSBAY TRANSIT CENTER LOOP - SUMMARY

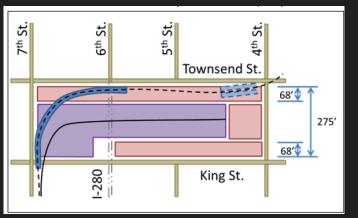


3. RAILYARD RECONFIGURATION/RELOCATION

If maintenance, storage, and operations remained at 4th/King after electrification



If maintenance and storage were relocated, but operations remained at 4th/King after electrification



2013 Caltrain completed a preliminary assessment of possible modified footprints at 4th/King at the request of San Francisco

Starting point for analysis

Assumes only Caltrain use of 4th/King

Based on anticipated maintenance, storage, and operations AFTER electrification of Caltrain (anticipated December 2020)

- Blue denotes the DTX alignment (in 2013)
- Purple denotes areas that would be needed for Caltrain use (min)
- Pink denotes areas that could be repurposed for other uses





Minimum area needed for Caltrain use

Available area for repurpose or other use

Source: Caltrain, 2013

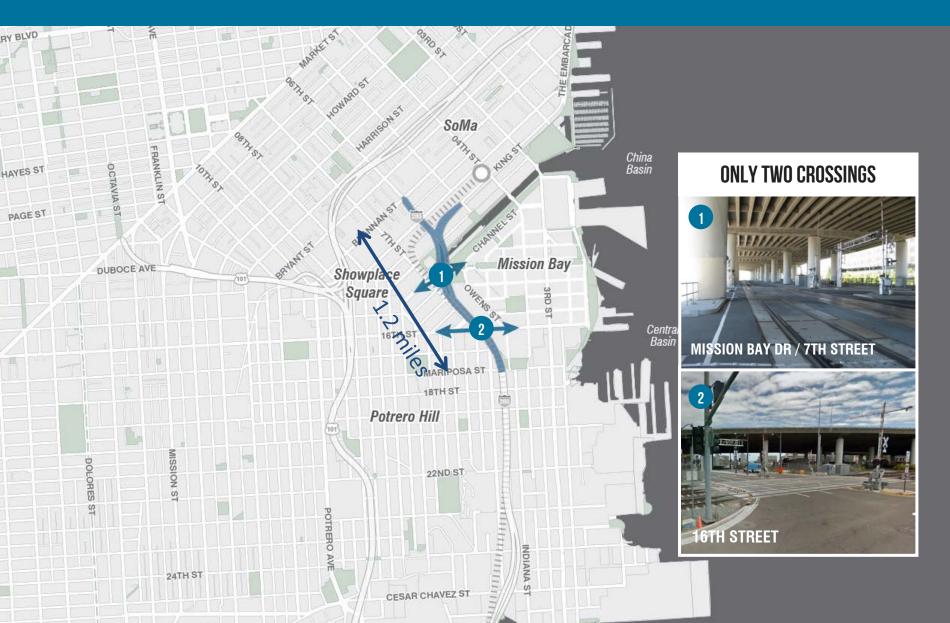
3. RAILYARD RECONFIGURATION/RELOCATION

Assessing alternatives along the Caltrain alignment

Some options can accommodate HSR train storage/ maintenance as well (co-located)

Increases non-revenue time (dead-head)

4. BOULEVARD I-280: EXISTING CONDITIONS



4. BOULEVARD I-280: SUMMARY

WHY ARE WE STUDYING?

Prioritize different modes on different streets.

Better connectivity.

Better urban form.

Continue to work with Caltrans, SFMTA, SFCTA on potential configurations

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Configurations differ depending on other component elements



4. BOULEVARD I-280: WHY WOULD WE STUDY



SUMMARY OF OPTIONS TO BE STUDIED IN PHASE II

1. DOWNTOWN RAIL EXTENSION (DTX) ALIGNMENT

- Three of the four alignment options moving forward
- Removed the "Tunnel under Existing Alignment" option

2. TRANSBAY TRANSIT CENTER LOOP

- Two of the four loop track options moving forward
- Removed the Main Street and Spear Street options

3. RAILYARD RECONFIGURATION/RELOCATION

• Continue to work with Caltrain and California High Speed Rail Authority (CHSRA) on possible reconfiguration/relocation options

4. BOULEVARD I-280

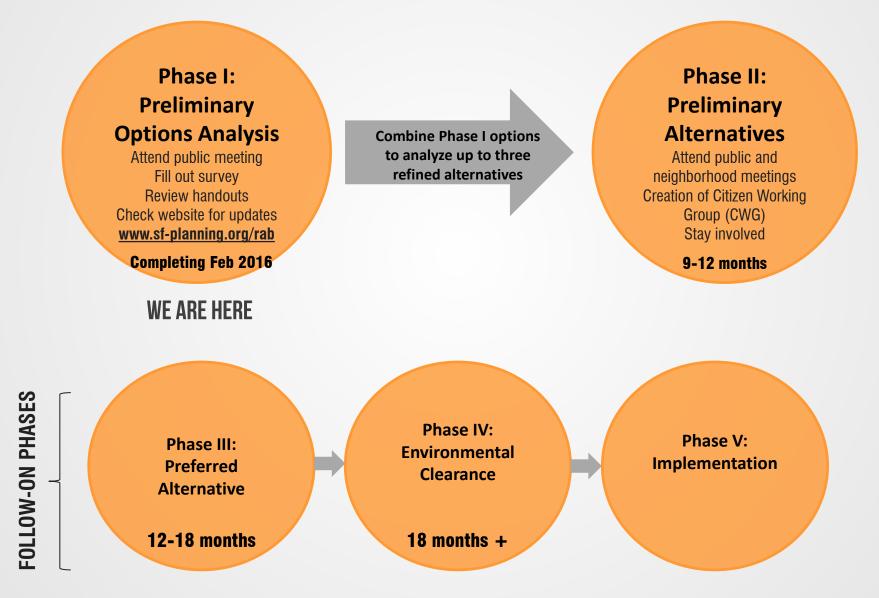
• Continue to work with Caltrans, San Francisco Municipal Transportation Agency (SFMTA), San Francisco County Transportation Agency (SFCTA) on traffic operations

OPPORTUNITIES FOR THE URBAN ENVIRONMENT



OUTREACH

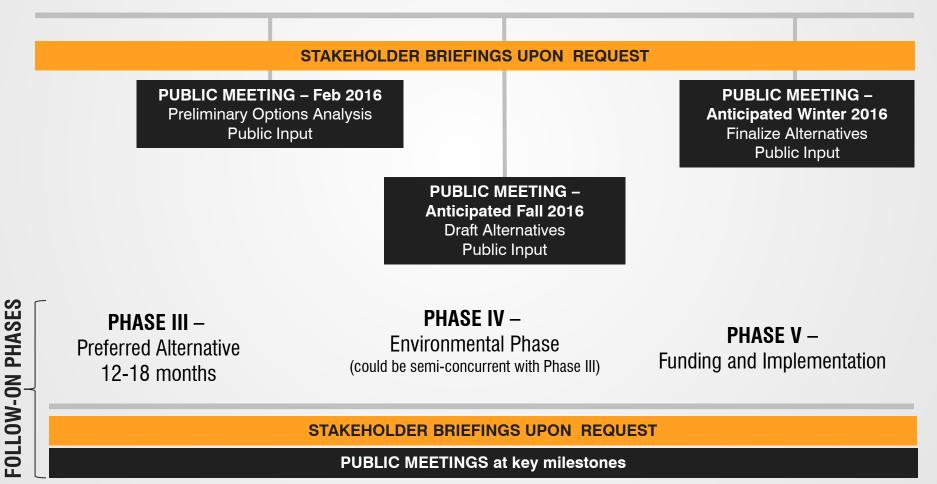
COMMUNITY ENGAGEMENT - HOW CAN YOU PARTICIPATE?



TIMELINE & NEXT STEPS

PHASE I – Preliminary Options Analysis June 2014-Feb 2016

PHASE II – Alternatives Development 9-12 months



THANK YOU www.sf-planning.org/rab

Study Manager Susan Gygi, PE



