Dumbarton Transportation Corridor Study

SamTrans Board Meeting
May 4, 2016
Agenda Item 10a

Dumbarton Corridor

Transportation System

- Jobs-housing imbalance
- Major employers driving growth
- Congestion, lengthy and unpredictable travel times
- Gaps in transportation network, limited options

Growth Imbalance
Background

- Dumbarton Rail Corridor Alternatives Study completed in 2011
- Environmental review process on hold due to high costs and lack of funding
- Bay Area has since experienced job growth, increased congestion and greater jobs-housing imbalance

Transportation Study

- SamTrans to manage Study
- Study partners:
  - SMCTA
  - Alameda County Transportation Commission
  - AC Transit
  - Facebook
- 15-month schedule
Goals

- Study operational and capital improvements that enhance mobility
- Work with regional partners to expedite improvements
- Assess how the rail bridge may be used, and make effective use of the transportation asset

Scope of Work

- Study mobility improvements on rail bridge, highway bridge and approach arterials
- Focus on short-term (2020) and long-term (2030) improvements and phasing

Population

- High density in East Palo Alto, Redwood City, Union City
- Peninsula study area to increase by 200,000 people (25%) by 2040
- East Bay study area to increase by 155,000 (28%) by 2040

Employment

- Existing high density pockets in Fremont, Palo Alto, Redwood City
- Peninsula “hot spots”
- Peninsula study area jobs to increase by 140,000 (28%) by 2040
- East Bay study area jobs to increase by 62,000 (24%) by 2040
Highway Bridge, Arterials

• Short-Term
  − DBX Improvements
  − Queue-jumps
  − Queue warning
  − Bus-only turn lanes
  − Signal coordination/transit signal priority
  − Metering lights
  − Lane use signs
  − Variable speed limits
  − Signage/wayfinding

• Long-Term
  − Bus lanes
  − Added general purpose lanes
  − Auxiliary lanes
  − HOV 2+ or 3+ lanes
  − Toll/express lanes
  − Direct access ramps
  − Tolling policies
  − Autonomous vehicle lanes

Rail Bridge, ROW

• Short-Term
  − Bike-pedestrian (West Bay)

• Long-Term
  − Bike-pedestrian
  − Bus Rapid Transit
  − Light Rail Transit
  − Diesel/Electric Trains
  − Personal Rapid Transit
  Separate from bridge:
  − Hyperloop
  − Ferry
  − Gondola
  − Monorail
Outreach

• Outreach at major milestones:
  − May 2016: Existing conditions, project goals and objectives, initial alternatives
  − September 2016: Initial alternatives screening, alternatives carried forward
  − April 2017: Evaluation of alternatives carried forward, funding plan, phasing plan

• Two stakeholder and two public meetings per milestone (East Bay and Peninsula)

Next Steps

• Screen initial alternatives
• Further study short-list alternatives (e.g., conceptual engineering, ridership modeling)
• Develop financial plan, consider Public Private Partnerships
• Recommend phasing
• Board update September 2016