Dumbarton Transportation Corridor Study

Board of Directors
September 7, 2016
Agenda Item XX

Dumbarton Corridor

Transportation Study

- Initiated due to recent growth
- Study partners:
  - SMCTA
  - ACTC
  - AC Transit
  - Facebook
- Kicked off in March – 15-month schedule

Scope of Work

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

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

Study Goals

• Enhance mobility
• Identify cost effective improvements with return on investment
• Minimize environmental impacts, financial risk and maximize safety
• Ensure local communities are protected from adverse impacts
**Initial Highway Bridge Alternatives**

- Express bus enhancements/expansion
- Variety of highway bridge lane configurations, including managed lanes:
  - Carpool lanes
  - Toll lanes
  - Bus-only lanes

**Initial Approach Alternatives**

- Improvements to:
  - Speed tolling
  - Improve carpool connections
  - Manage and/or increase park-and-ride capacity
  - Provide additional capacity/improve flow on key arterials and at intersections
  - Improve connections to US 101
Initial Rail Bridge Alternatives

- Transit modes:
  - Bus Rapid Transit (BRT)
  - Commuter Rail
  - Bike/ped
  - Light Rail Transit (LRT)
  - Bay Area Rapid Transit (BART)
  - Personal and Group Rapid Transit
  - People Mover
  - Hyperloop
  - Tunnel (BRT, LRT, Commuter Rail)
  - Ferry
  - Gondola

Initial Screening Process

- Evaluated:
  - Highway configurations for highway bridge
  - Approach improvements per potential benefit to transit
  - Transit modes for rail bridge
- Carried forward all short-term options
Highway Bridge Alternatives Carried Forward

• Short-term: Express bus enhancements/expansion
• Long-term: 3 managed lane options

Highway Bridge Alternatives Carried Forward

• Contraflow managed lane in median with movable barrier
Highway Bridge Alternatives Carried Forward

- Reversible managed lanes in median with fixed barriers

Highway Bridge Alternatives Carried Forward

- Managed lane in each direction
Approach Package

• **Short-term:**
  - Bike/ped approach improvements
  - FasTrak lane extensions and operational improvements
  - Park-and-ride management/expansion
  - Operational improvements such as transit signal priority and queue jump lanes on key roadways

Approach Package

• **Long-term:**
  - All electronic tolling
  - Carpool/toll direct access ramps
  - Dedicated lanes for buses
  - Grade separations (improve flow at key intersections)
  - Managed lanes connections
Transit Alternatives Carried Forward

- Short-term:
  - Bike/ped on peninsula

- Long-term:
  - BRT from Union City BART to Redwood City Caltrain
  - Commuter Rail from Union City BART to Redwood City

Next Steps

- September – December: Further study alternatives carried forward
  - Conceptual engineering
  - Ridership modeling
  - Financial analysis including public-private partnerships

- January: Comparative alternatives analysis

- February: Recommend phasing and financial plan