

Dumbarton Transportation Corridor Study

Board of Directors
September 7, 2016
Agenda Item XX

San Mateo


Dumbarton Corridor



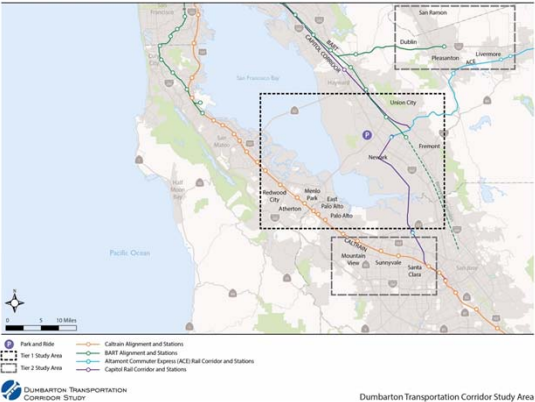
Source: Wikipedia

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Transportation Study



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




Map of the Dumbarton Transportation Corridor Study Area. The map shows the San Francisco Bay Area with various transit routes and study areas highlighted. The legend includes: Park and Ride, Tier 1 Study Area, Tier 2 Study Area, Capital Alignment and Stations, BART Alignment and Stations, Alameda Corridor Express (ACE) Rail Corridor and Stations, and Capital Rail Corridor and Stations. The map also shows the Pacific Ocean, San Francisco Bay, and various cities like San Ramon, Dublin, Fremont, and Mountain View.


Dumbarton Transportation Corridor Study Area

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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



Two photographs showing infrastructure. The left image shows a long bridge over water. The right image shows a bridge structure with power lines.

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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**



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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**

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Initial Highway Bridge Alternatives

samTrans

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

- Carpool lanes
- Toll lanes
- Bus-only lanes



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Initial Approach Alternatives

samTrans

- 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

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Initial Rail Bridge Alternatives

The samTrans logo consists of the word "samTrans" in a sans-serif font, with "sam" in black and "Trans" in blue. Below the text is a horizontal bar with a red top section and a blue bottom section.

- **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

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Initial Screening Process

The samTrans logo consists of the word "samTrans" in a sans-serif font, with "sam" in black and "Trans" in blue. Below the text is a horizontal bar with a red top section and a blue bottom section.

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

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Highway Bridge Alternatives Carried Forward



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

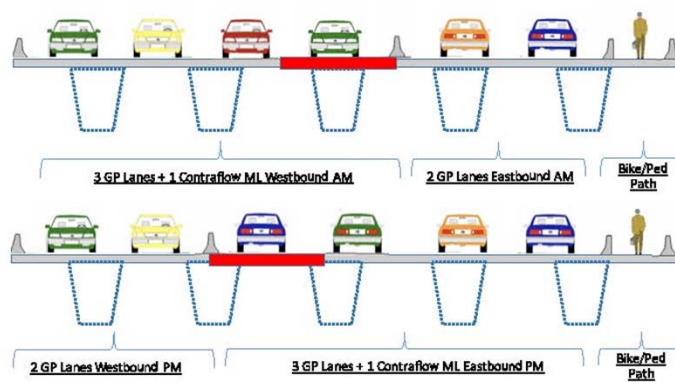


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Highway Bridge Alternatives Carried Forward



- Contraflow managed lane in median with movable barrier

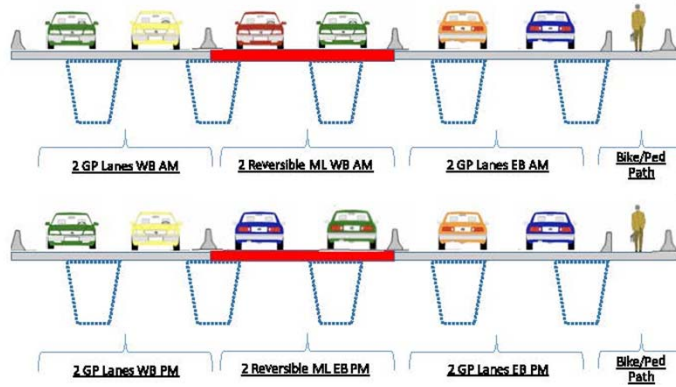


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Highway Bridge Alternatives Carried Forward



- Reversible managed lanes in median with fixed barriers

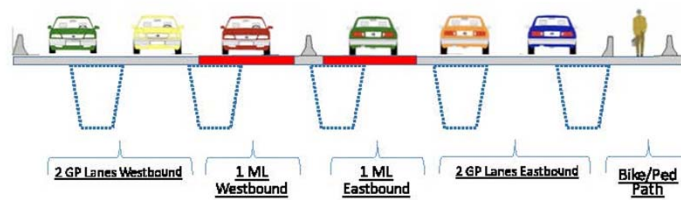


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Highway Bridge Alternatives Carried Forward



- Managed lane in each direction



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Approach Package

samTrans

- **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

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Approach Package

samTrans

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

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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



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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**

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Comments / Questions



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