



# Dumbarton Transportation Corridor Study

Stakeholder/Public Meeting  
September 2016

San Mateo

## Dumbarton Corridor

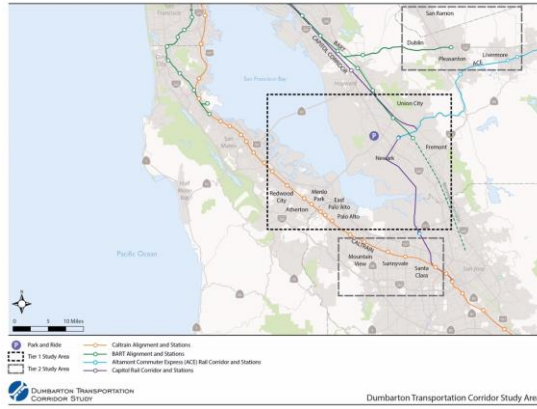


Source: Wikipedia

## Transportation Study



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



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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



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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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## Goals, Evaluation Metrics



- **Enhance mobility**
  - Capacity (benefitting transit for highway alternatives)
  - Ability to serve regional travel markets (transit alternatives only)
  - Service frequency (transit alternatives only)
- **Cost effective improvements with return on investment**
  - Capital and operating costs

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## Goals, Evaluation Metrics

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- **Minimize environmental impacts, financial risk and maximize safety**
  - Environmental impacts
  - Financial risk
  - Safety
- **Ensure local communities are protected from adverse impacts**
  - Disproportionate burden on low-income populations
  - Disparate impacts on minority populations

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## Initial Highway Bridge Alternatives

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- **Dumbarton Express enhancements**
- **Managed lanes (carpool, toll or bus-only) configurations that fall into three categories:**
  - Utilize existing cross section
  - Convert existing bike/ped to vehicle lane with bike/ped replaced on rail bridge
  - Convert existing bike/ped to vehicle lane with bike/ped replaced on cantilevered deck



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## 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

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## 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

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## Initial Screening Process

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- **Step 1:**
  - Scored highway configurations for highway bridge
  - Identified approach improvement packages that prioritize transit in long-term
  - Scored transit modes for rail bridge
- **Step 2:**
  - Scored best performing transit modes with consideration for operating plans
- **Carried forward all short-term options**

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## Highway Bridge Alternatives Carried Forward

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- **Short-term: enhanced Dumbarton Express service**
- **Long-term: 3 managed lane options**



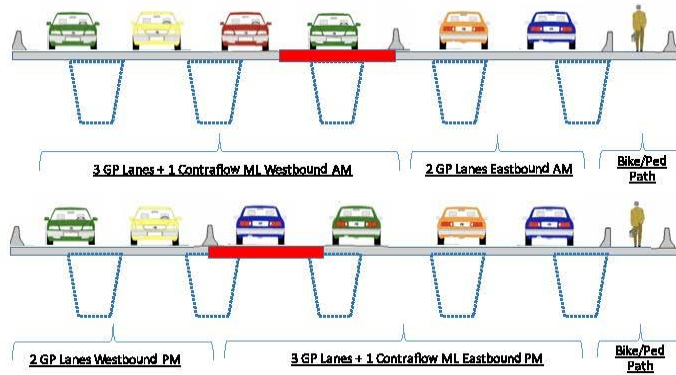
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# Highway Bridge Alternatives Carried Forward



- **Contraflow managed lane in median with movable barrier**

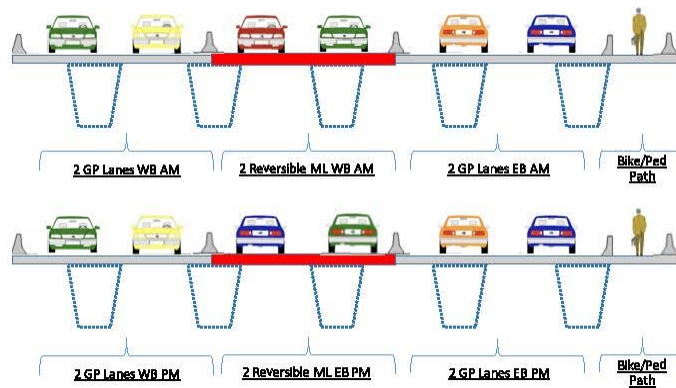


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# Highway Bridge Alternatives Carried Forward



- **Reversible managed lanes in median with fixed barriers**

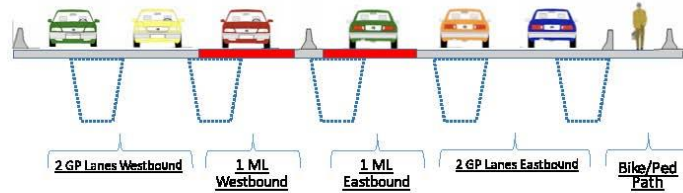


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## Highway Bridge Alternatives Carried Forward



- Managed lane in each direction



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## Approach Packages



- **Short-term:**
  - Bike/ped approach improvements
  - Manage/expand park-and-ride
  - Carpool/toll direct access ramp at Newark
  - Extension of FasTrak lane eastward
  - Open road tolling at FasTrak lanes
  - Transit signal priority or queue jump lanes on Decoto and at Bayfront/Willow, Bayfront/University
  - Bus lanes on Bayfront

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## Approach Packages

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- **Long-term:**
  - All electronic tolling for cash lanes
  - Add eastbound carpool/toll from toll plaza to Decoto
  - Managed lanes on US 101
  - Carpool/toll direct access ramp at US 101/Marsh
  - Grade separations at Bayfront/Willow and Bayfront/University
  - Willow Express lanes
  - I 880/SR 84 direct connector ramps

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## Transit Alternatives Carried Forward

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- **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

The logo for samTrans, featuring the text "samTrans" in a white sans-serif font on a blue rectangular background with a red horizontal stripe below it.

- **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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