

# EAST BAY BUS RAPID TRANSIT PROJECT

Presented to:  
Caltrans District 4 Transportation Planning Academy  
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# What is BRT?

Suite of technologies that creates a fast, reliable and comfortable bus service that mimics more expensive light rail systems. State highways are often the preferred route for BRT systems in California.

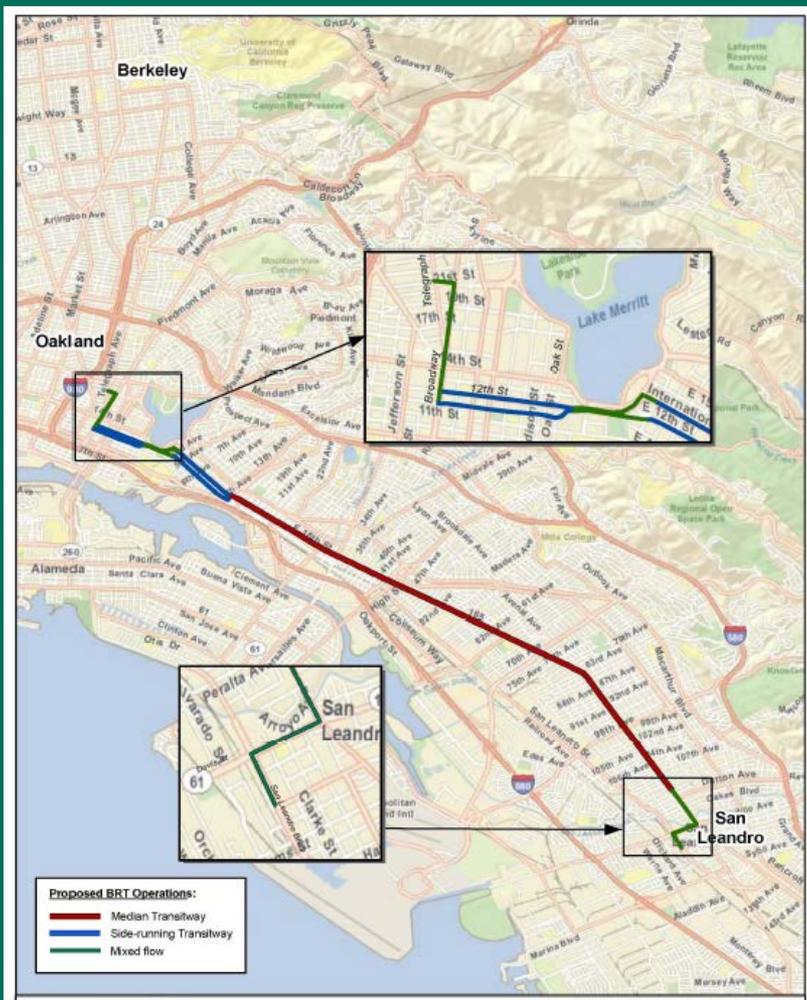
- Bus-only Lanes created by converting traffic lanes
- Distinctive Stations with Level Passenger Boarding
- Advanced Propulsion – Hybrid-electric
- Off-board Fare Payment
- Upgraded signals and transit signal priority



# BRT in the United States



# East Bay Bus Rapid Transit Project Downtown Oakland to San Leandro



9.5 miles (1/2 on SR 185)

Dedicated bus lanes (81%)

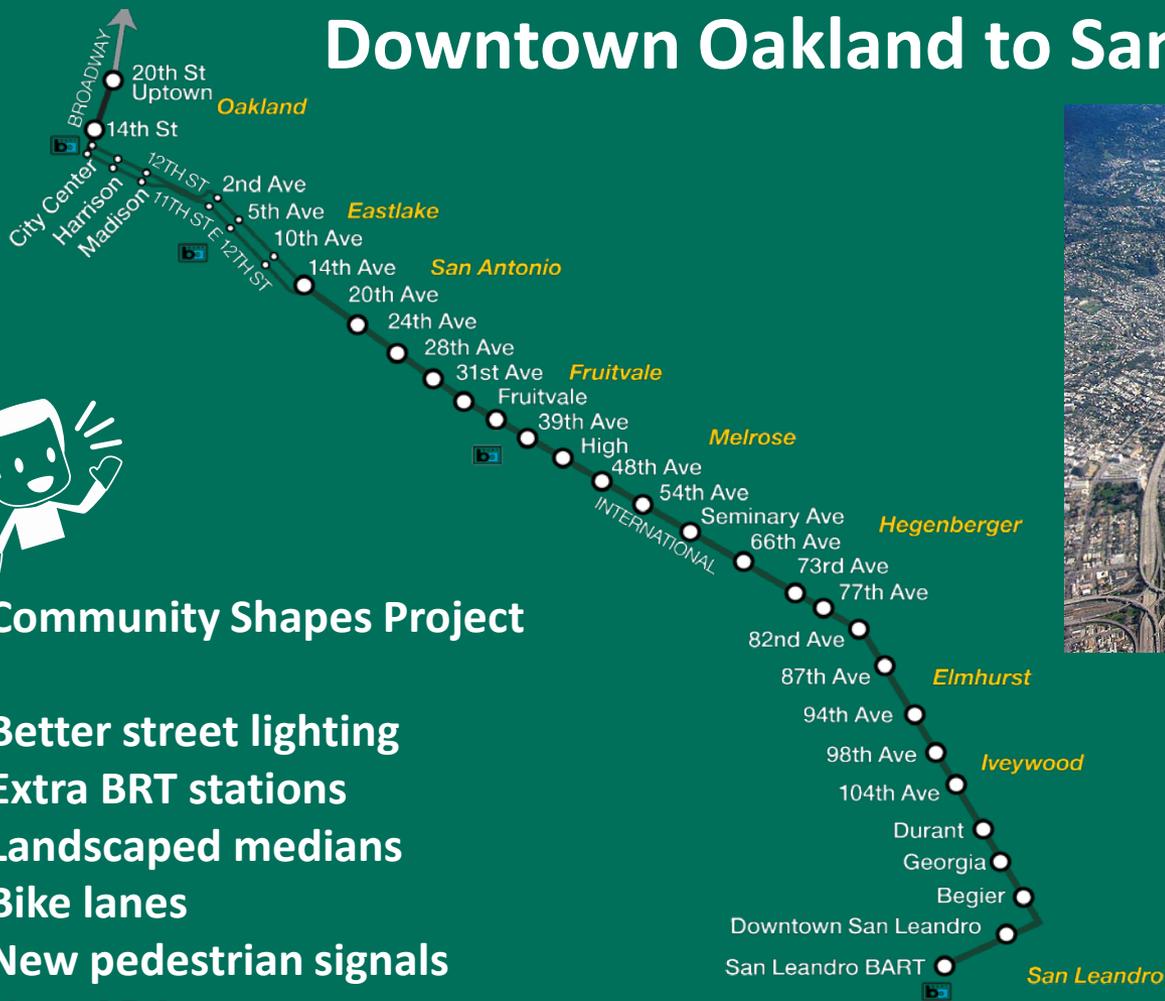
Dual – door buses

New signals & timing

Off-board fare payment



# East Bay Bus Rapid Transit Project Downtown Oakland to San Leandro

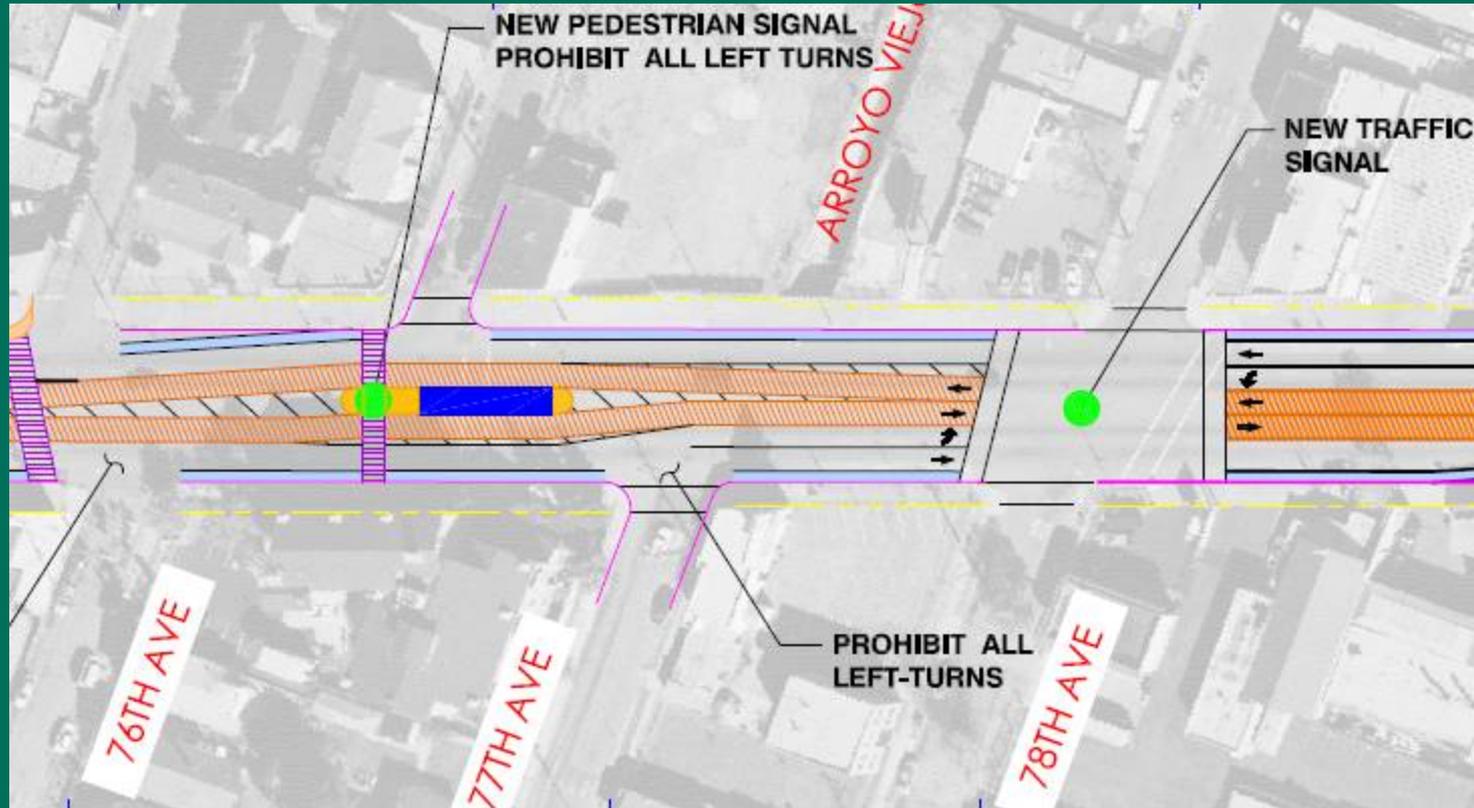


## Community Shapes Project

- Better street lighting
- Extra BRT stations
- Landscaped medians
- Bike lanes
- New pedestrian signals
- New ADA ramps



# Typical BRT Station & Lane Configuration



# Dual-Door Buses in Response to Community Issues

Reduce parking loss  
Better traffic flow  
Preserve medians  
Improve access



**Dual-door, low-floor buses allow boarding from either side**



# Improve Public Safety

Emergency response vehicles in bus lane

Crime Prevention through Environmental Design

Pedestrian scale lighting

Safer crosswalks & new bike lanes

New signals

Safety cameras



The Blade



# Downtown Today



11<sup>th</sup> Street @ Harrison Street - simulation

# Downtown



11<sup>th</sup> Street @ Harrison Street - simulation

# Fruitvale Today



International Blvd. @ 34<sup>th</sup> Ave.

# Fruitvale

- New off-street parking lot
- Preserve median



International Blvd. @ 34<sup>th</sup> Ave.- simulation

# Havenscourt

## Balancing Traffic & Transit



-  New or relocated station
-  Previously proposed station
- No bus lanes



# Elmhurst Today



International Blvd. @ 82<sup>nd</sup> Ave.

# Elmhurst



- Stations added
- Stations relocated near senior services
- Preserve median



International Blvd. @ 82<sup>nd</sup> Ave.- simulation

# Overall Benefits



## Better Passenger Experience

- Faster, more reliable service
- Comfortable, well-lit, safe stations
- Easier boarding & disabled access
- Enhanced access to jobs
- Supports development

## Greater Efficiency & Reduced Cost

- Increases service frequency by 33% at the same cost
- Increases person-throughput & bus ridership
- Reduces energy consumption & greenhouse gas emissions
- Provides sustainable service model



# Mitigation Planning



- Construction staged in short segments
- One lane of traffic open in each direction
- Access to all businesses and residents maintained (includes sidewalks and ADA ramps)

## Minimize Traffic Delays with Construction Staging

- Traffic Management Plans developed with City staff & Caltrans to maintain safe traffic movement
- Reconfigure parking if needed and feasible
- Public Notification Plan for all construction activities



# Next Steps

- Complete engineering and final design – 2012-2014
- Construction – 2014-2016
- Open for service – 2016
- Agency BRT Master Plan – 2014

