

San Mateo County Smart Corridor

California Transportation
Commission

September 27, 2012

Why a need for a Smart Corridor?

Route and Flush traffic from local streets

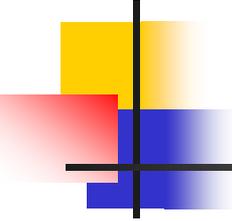
Accident at Woodside - 101



Chronicle / Kurt Rogers



Chronicle / Kurt Rogers



SMART CORRIDOR BOUNDARY

- El Camino Real and Alternate Routes from I-380 to Oregon Expressway - Through the Cities of:
 - San Bruno, Millbrae, Burlingame, San Mateo Belmont, San Carlos, Redwood City, Atherton, Menlo Park, East Palo Alto, County of San Mateo
- Major arterials between El Camino Real - Alternate Routes and US 101

San Mateo County Smart Corridor North Segment

LEGEND

-  San Mateo Hub
-  City Hall / TMC
-  ADMS

Trailblazer Sign

-  Local
-  Caltrans

MVDS

-  Local
-  Caltrans

Camera

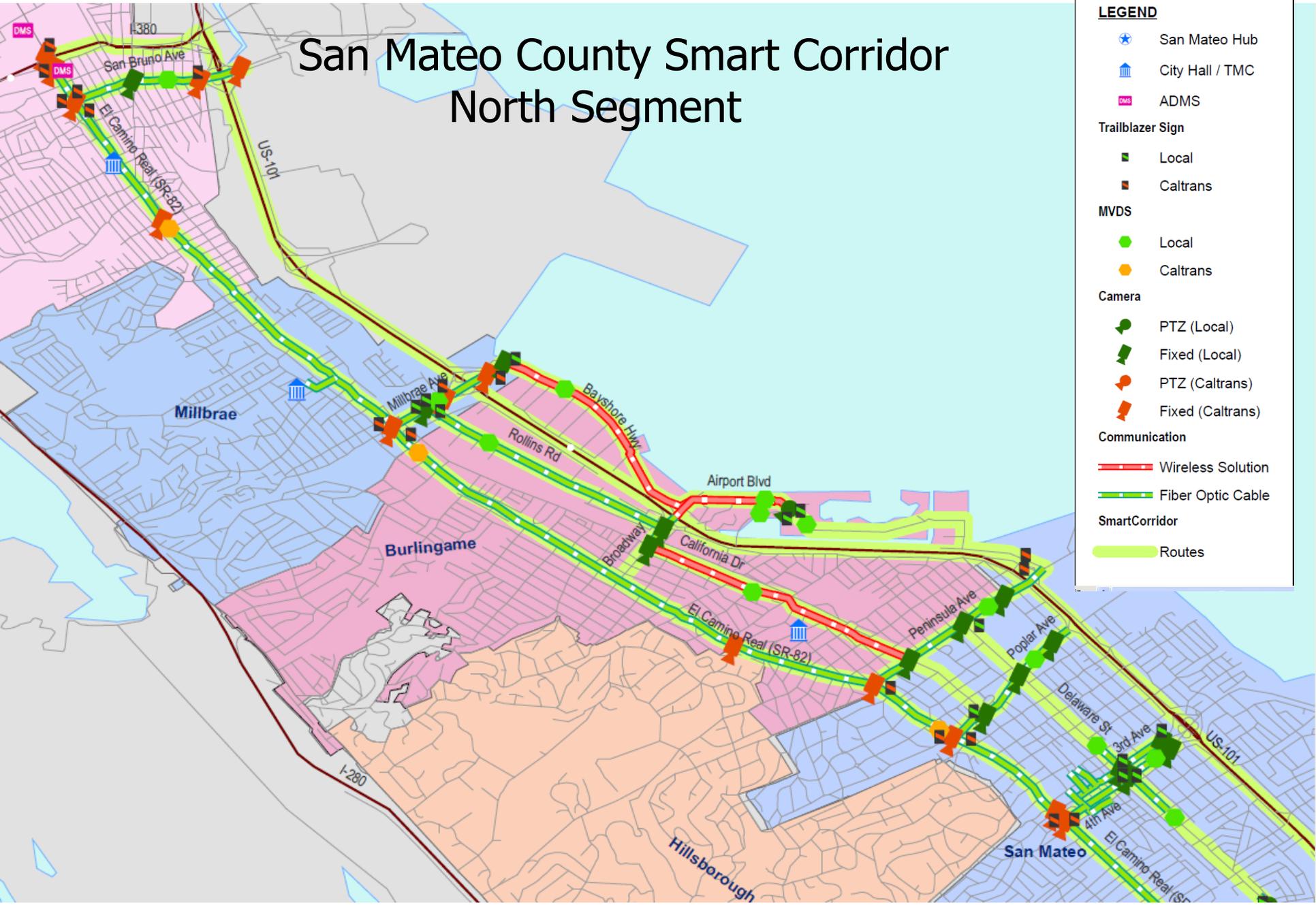
-  PTZ (Local)
-  Fixed (Local)
-  PTZ (Caltrans)
-  Fixed (Caltrans)

Communication

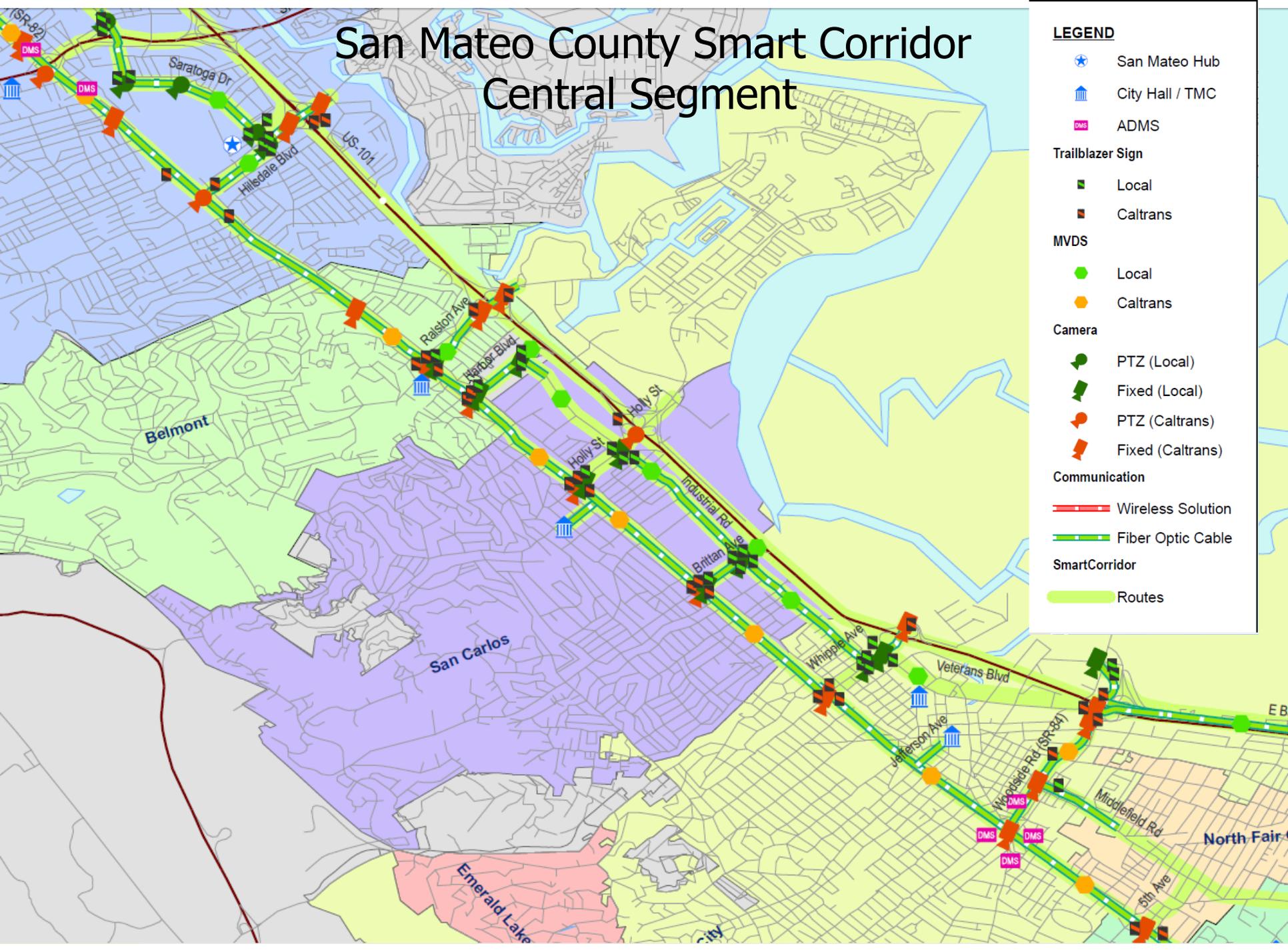
-  Wireless Solution
-  Fiber Optic Cable

SmartCorridor

-  Routes



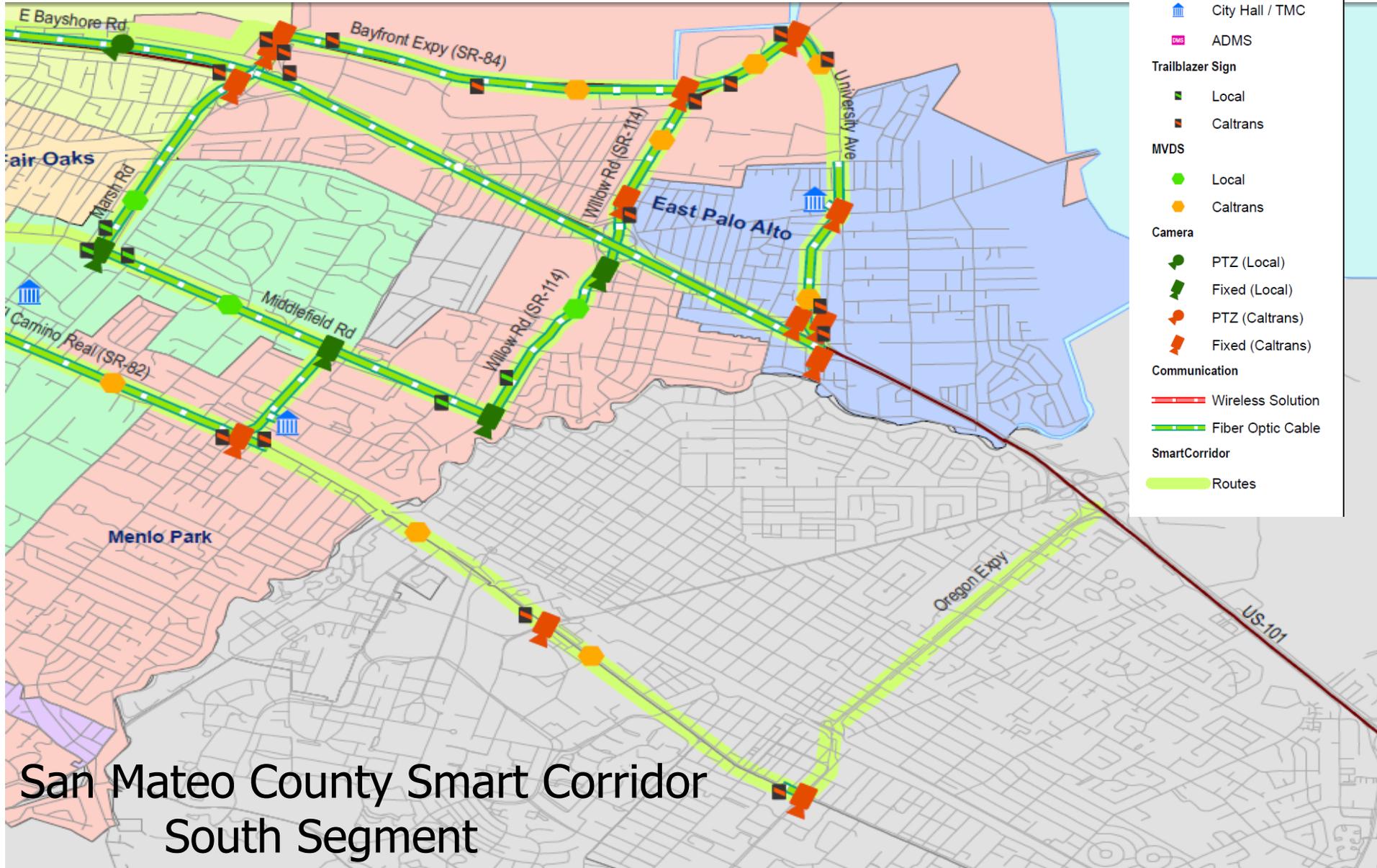
San Mateo County Smart Corridor Central Segment



- LEGEND**
- San Mateo Hub
 - City Hall / TMC
 - ADMS
 - Trailblazer Sign**
 - Local
 - Caltrans
 - MVDS**
 - Local
 - Caltrans
 - Camera**
 - PTZ (Local)
 - Fixed (Local)
 - PTZ (Caltrans)
 - Fixed (Caltrans)
 - Communication**
 - Wireless Solution
 - Fiber Optic Cable
 - SmartCorridor**
 - Routes

LEGEND

- San Mateo Hub
- City Hall / TMC
- ADMS
- Trailblazer Sign
 - Local
 - Caltrans
- MVDS
 - Local
 - Caltrans
- Camera
 - PTZ (Local)
 - Fixed (Local)
 - PTZ (Caltrans)
 - Fixed (Caltrans)
- Communication
 - Wireless Solution
 - Fiber Optic Cable
- SmartCorridor
 - Routes



San Mateo County Smart Corridor
South Segment

Smart Corridor Project

The project would install Intelligent Traffic Systems (ITS) equipment (e.g. cameras, dynamic signs, and signal controller communications) along pre-identified routes

Small Dynamic Signs



Fixed Cameras

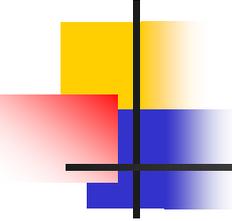


Trailblazer Signs (example)



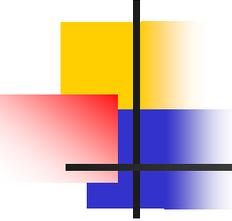
PTZ Cameras





SMART CORRIDOR GOALS

- Remote control of signals, traffic information and monitoring in the project area
- Establish communication system to channel monitoring and control information to Traffic Management Centers
 - Oakland District 4
 - City of San Mateo (County Hub)
- Real time access to traffic video and monitoring by Caltrans and Cities/ County
- Fiber Optic Backbone to Oakland District 4



SMART CORRIDOR BENEFITS

- Alternate route with timing optimized for incident management
- Local event management timing options for El Camino Real (Non-incident)
- Access to all video, signals and monitors to optimize normal operations
- Upgrade to local signals and equipment
- Signal Priority and Pre-emption Ready

SMART CORRIDOR FUNDING

- Fully Funded (\$36.8M)
 - County STIP (CTC) \$13M
 - TLSP (CTC) \$17.5M
 - CMAQ (CTC) \$0.3M
 - Sales Tax \$3.0M
(Measure A - TA)
 - Local (C/CAG) \$3.0M

SMART CORRIDOR IMPLEMENTATION STATUS

- Caltrans – Design Completed along ECR
- C/CAG – Design Completed along local roads
- Demo Project construction complete
- Allocation received for construction on ECR and local roads
- Construction of Local Roads Segment Underway
- Construction of El Camino Real Segment Underway

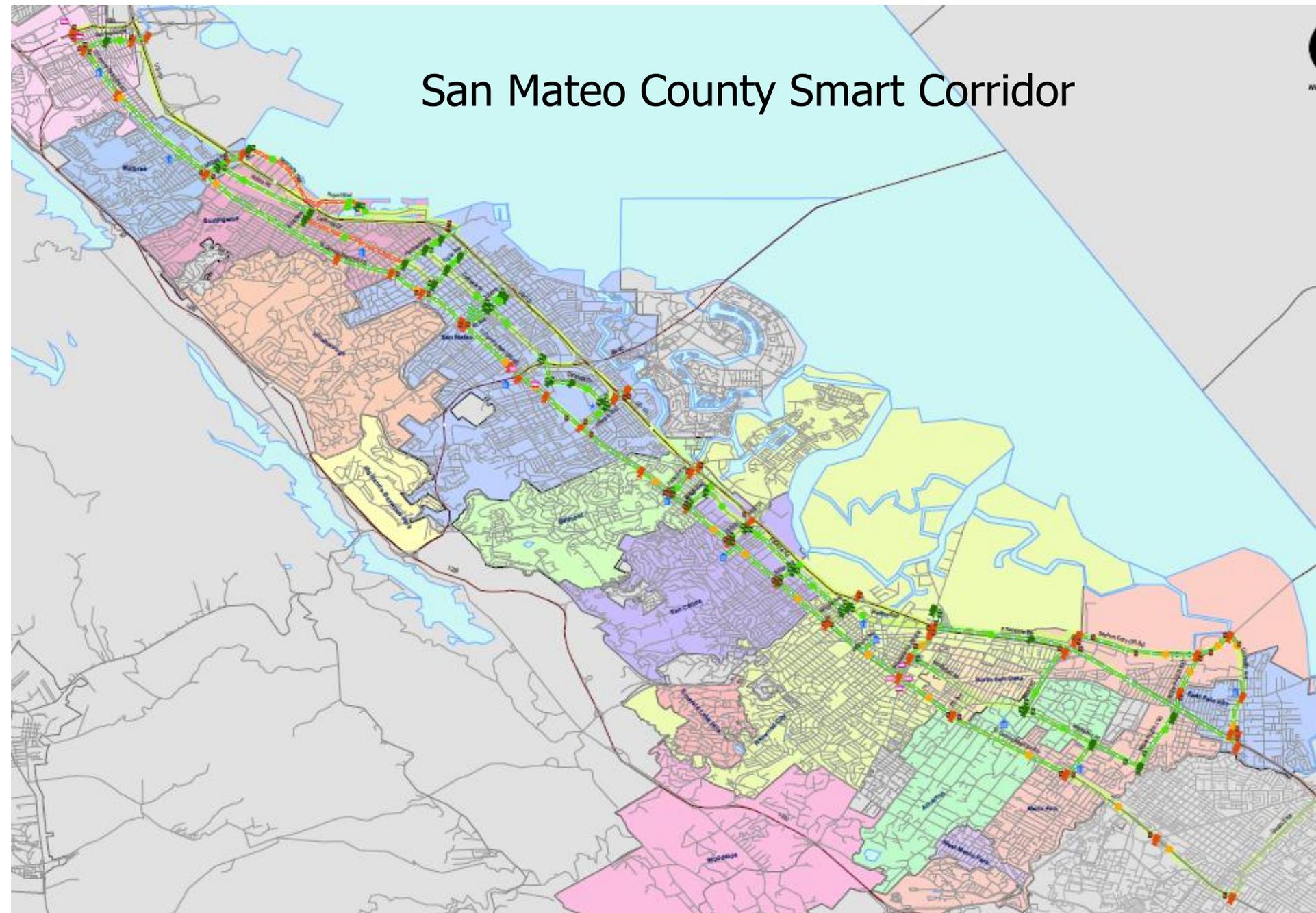
WORKING TOGETHER FOR IMPROVED MOBILITY IN CALIFORNIA

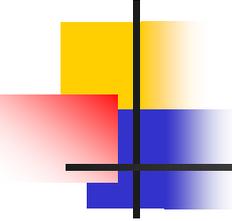
C/CAG

City/ County Association of Governments
of San Mateo County



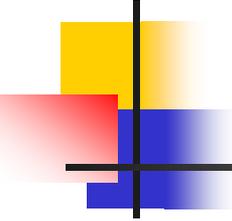
San Mateo County Smart Corridor





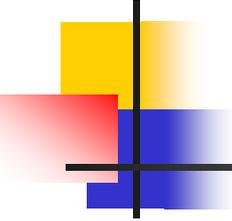
Development Partners

- Project Sponsors - System Design
 - C/CAG, Caltrans, SMCTA
- Integrated Project Team-Design
 - Caltrans/CCAG/Consultant/Cities (10)/County
- Stakeholders - MTC, Public Works, Police, Fire, OES, Transit agencies



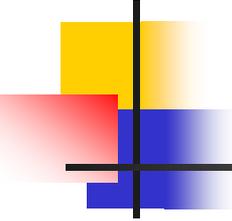
SMART CORRIDOR OBJECTIVES

- US 101 Major Incidents - Caltrans to control and optimize phasing on predetermined routes to improve traffic flow around the incident
- Normal Operations - Allow the corridors to be coordinated and monitored to optimize traffic flow (ECR-Caltrans, Local Streets-Cities)



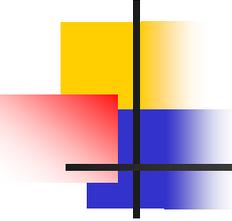
Funding Partners

- City/ County Association of Governments of San Mateo County (C/CAG) Partners – Motor Vehicle Fees
- San Mateo County Transportation Authority – Local Sales Tax
- Metropolitan Transportation Commission
- California Transportation Commission



SMART CORRIDOR CONCEPT

- Intelligent Transportation System Technologies
- Pre-Negotiated Signal Timing
 - Local Roads
 - State Roads
- Pre-Negotiated Agreements
 - Caltrans
 - Local (Cities/ County)



SMART CORRIDOR SCHEDULE

- Local Streets Construction Fall 2012
- ECR Construction Fall 2012
- Complete Construction Summer 2013
- System Integration 2013-14