Caltrain Modernization Program

September 2012

Local Vision

- Caltrain / HSR blended system
  - Electrify / Upgrade railroad
  - Caltrain and HSR on shared tracks
  - Maximize use of existing tracks
- Key Benefits
  - Minimize community impact
  - Lower project cost
  - Advance project delivery

Incremental Investments

- $1.5B for Caltrain Modernization
  - Advanced Signal System by 2015
  - Update /Recirculate Caltrain EA/EIR
  - Electrified Caltrain service by 2019
- Additive Investments for Blended System
  - Continue community planning process
  - Define additive improvements
  - Identify additional funding
  - Support HSR to downtown SF by 2029

C/CAG City/ County Association of Governments of San Mateo County

SAN MATEO COUNTY Transportation Authority

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

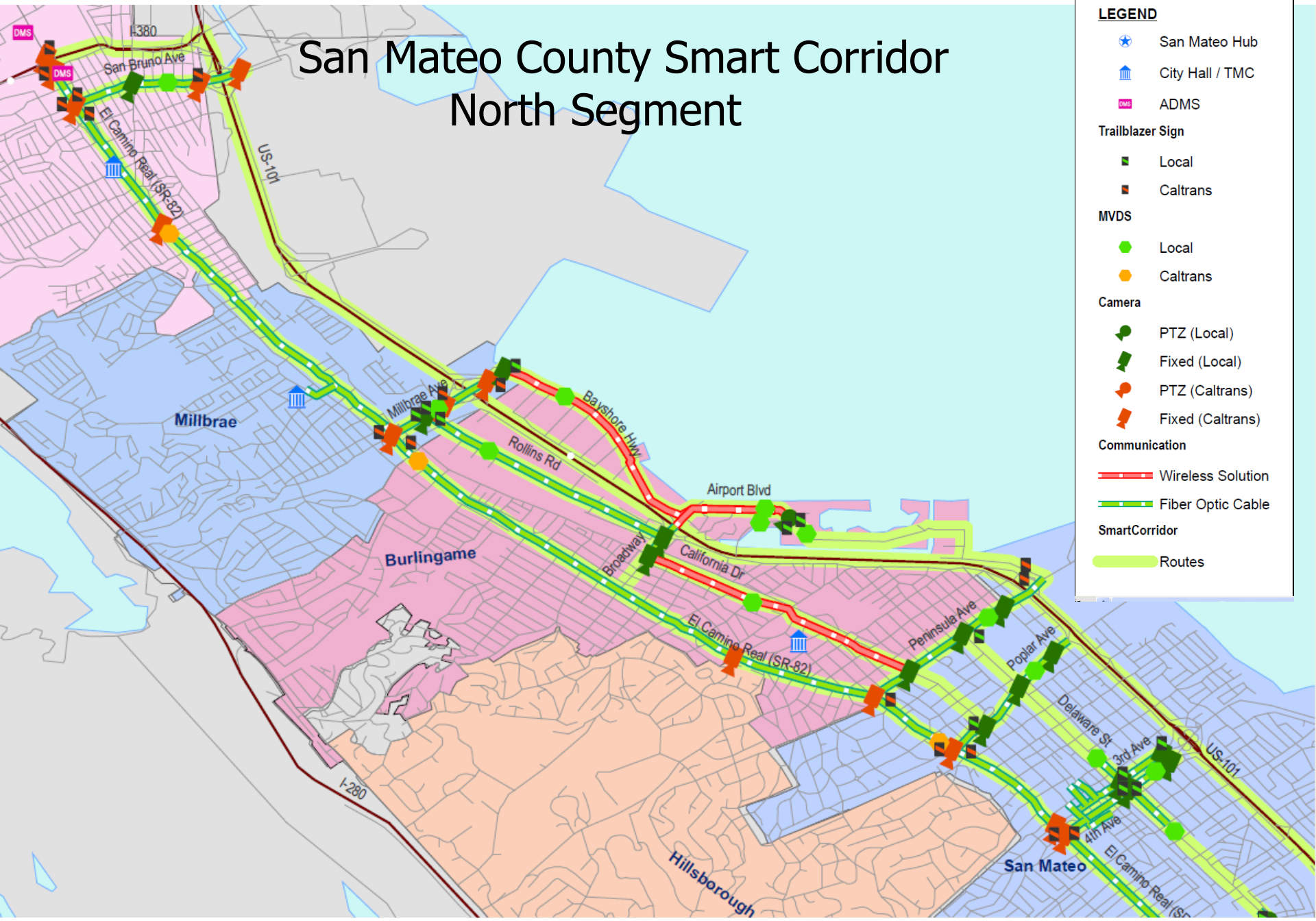
Chronicle / Kurt Rogers

Chronicle / Kurt Rogers

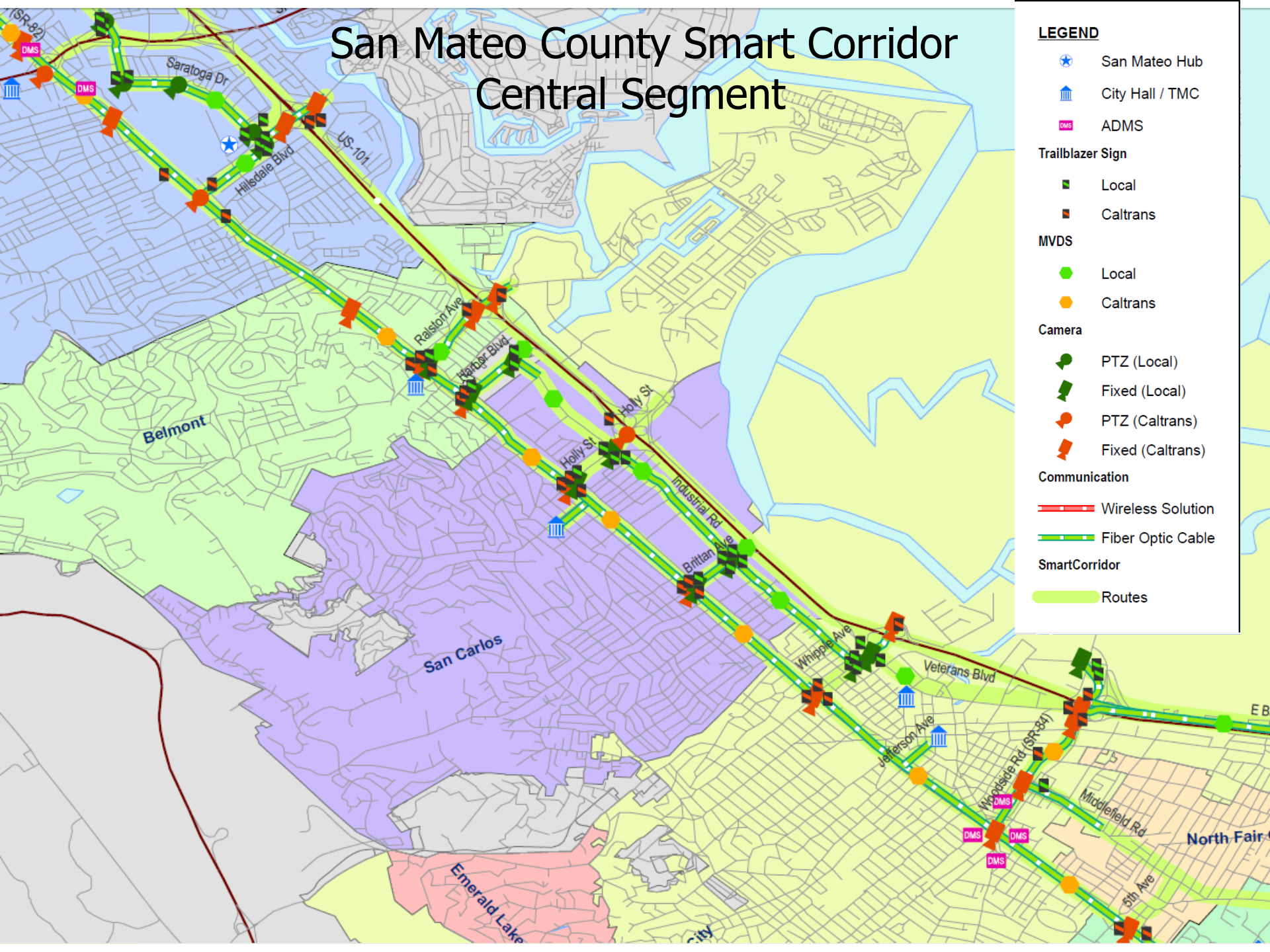
SMART CORRIDOR BOUNDARY

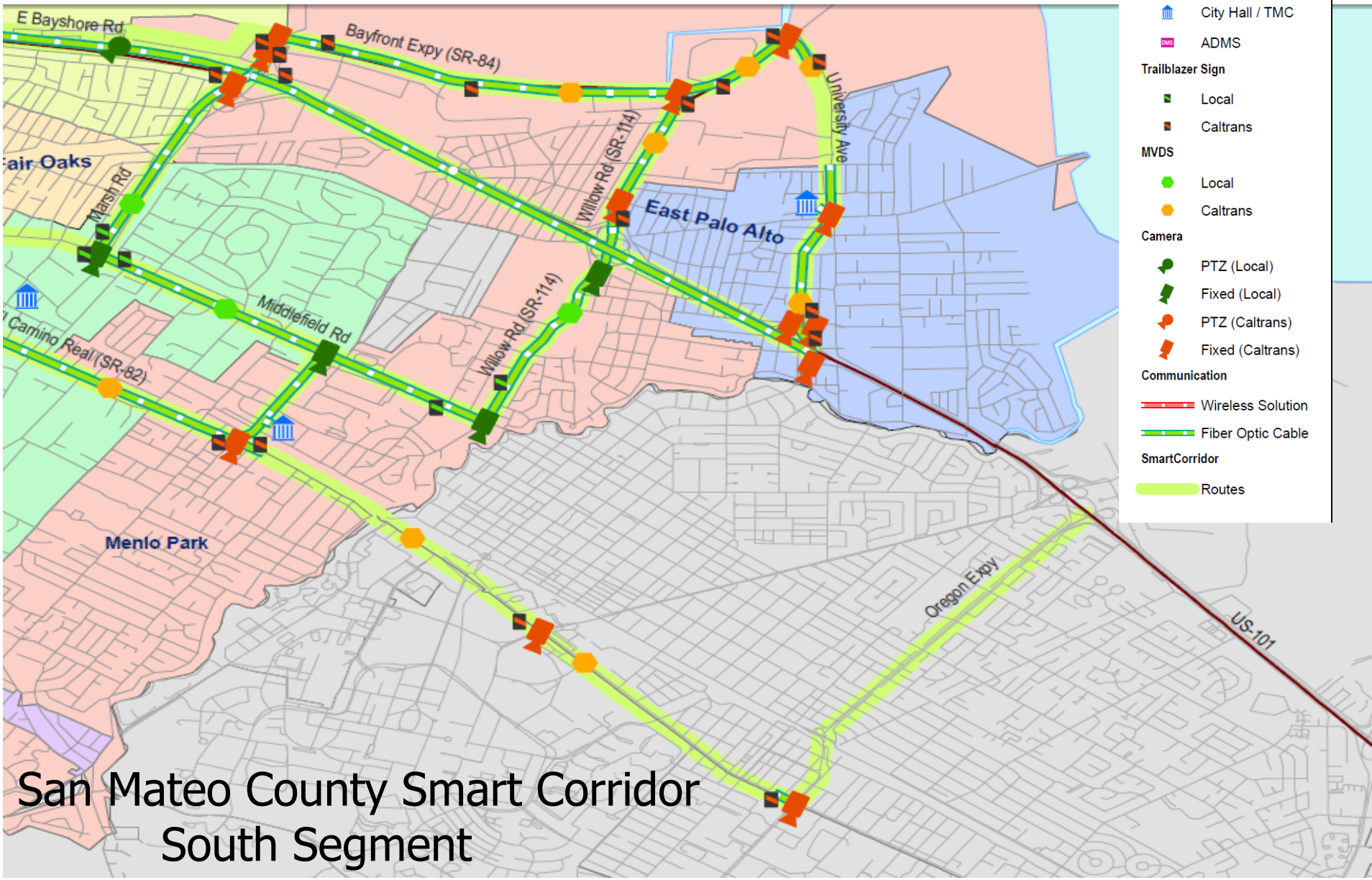
- El Camino Real and Alternate Routes from I-380 to Oregon Expressway - Through the Cities of:
  - San Bruno, Millbrae, Burlingame, San Mateo Belmont, San Carlos, Redwood City, Atherton, Menlo Park, East Palo Alto, County of San Mateo
- Major arterials between El Camino Real - Alternate Routes and US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

San Mateo County Smart Corridor North Segment



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
E Bayshore Rd
Bayfront Expy (SR-84)
University Ave
Willow Rd (SR-114)
East Palo Alto
Marsh Rd
Middlefield Rd
Willow Rd (SR-114)
El Camino Real (SR-82)
Menlo Park
Oregon Expy
US-101
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

Trailblazer Signs (example)

Fixed Cameras

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

C/CAG City/ County Association of Governments of San Mateo County

SAN MATEO COUNTY Transportation Authority

SMART CORRIDOR FUNDING

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

C/CAG City/ County Association of Governments of San Mateo County

SAN MATEO COUNTY Transportation Authority

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

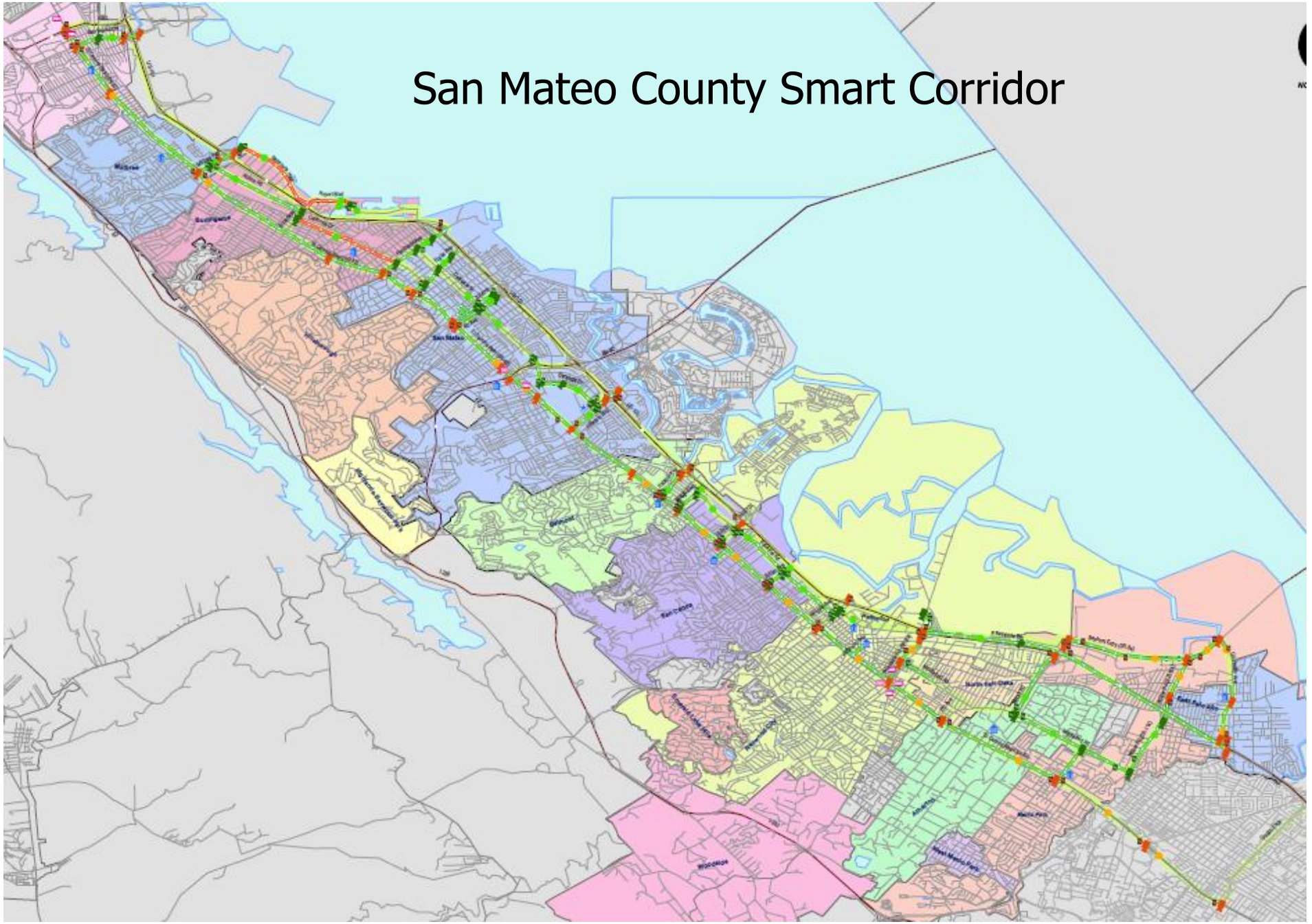
SAN MATEO COUNTY Transportation Authority

STATE OF CALIFORNIA CALIFORNIA TRANSPORTATION COMMISSION

Caltrans

METROPOLITAN TRANSPORTATION COMMISSION

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