San Mateo County Smart Corridor

San Mateo County Transportation Authority Board

August 2, 2012

Why a need for a Smart Corridor?
Route and Flush traffic from local streets
Accident at Woodside - 101
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
The project would install Intelligent Traffic Systems (ITS) equipment (e.g. cameras, dynamic signs, and signal controller communications) along pre-identified routes.
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 FUNDING

- Fully Funded ($36.8M)
  - County STIP $13M
  - TLSP $17.5M
  - CMAQ $0.3M
  - Sales Tax $3.0M (Measure A)
  - Local (C/CAG) $3.0M
- Highly Leveraged - 5.1 to 1
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)
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 CONCEPT

- Intelligent Transportation System Technologies
- Pre-Negotiated Signal Timing
  - Local Roads
  - State Roads
- Pre-Negotiated Agreements
  - Caltrans
  - Local (Cities/ County)
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 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
- Initiating System Integration/ Design at Oakland
SMART CORRIDOR SCHEDULE

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

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