I-880 ICM Systems Engineering Management Plan

TAC Meeting

Presented by

Metropolitan Transportation Commission (MTC)

November 16, 2011

Agenda

- Introductions, Agenda
- Project Status
- I-880 ICM Strategies
  - Information Technology Strategies
  - Roadway Network Strategies
  - Transit/Ped/Bike Network Strategies
- Strategy Selection Criteria
- Wrap up & Next Meeting

Meeting Objectives

- Recap of the project's work.
- Identify I-880 ICM detailed strategies for consideration of implementation in the I-880 Corridor.
- Feedback from TAC on implementation feasibility of the proposed ICM strategies.
- Feedback from TAC on grouping independent strategies for further categorization and prioritization.

Project Status

- Task 2 - Completed
  - A high level assessment of current conditions and opportunities within the corridor.
- Task 3 – Ongoing
  - Categorize and prioritize ICM strategies to help stakeholders decide on an implementation plan for the Corridor.
- Future Tasks
  - Concept of Operations
  - System Engineering Management Plan
  - Performance Evaluation Plan

I-880 ICM Strategies

- Information Technology Strategies
- Roadway Network Strategies
- Transit/Bike/Ped Network Strategies

I-880 ICM Strategies
Information Technology Strategies

Traveler Information System Improvements	• Real-Time Parking Information System • Real-Time Traffic Information on Major Arterials • Improve Real-Time Information for I-880 Corridor • Integration and Maintenance of Data for the I-880 Corridor
Travel Demand Management	• TDM Outreach to Small-Sized Employers • TDM for Cities
Integrated Incident Management program	• Notification of Major Emergencies to Employers and Major Traffic Generators • Clearance of Incidents Involving Trucks
Goods Movement Strategies	• Real-Time Information System for Truck Drivers

I-880 ICM Strategies
Roadway Network Strategies

Improved Coordinated Ramp Metering	• Coordinated Ramp Metering • Coordinated Ramp Metering and Signal Timing • Fill Gaps in Ramp Metering • HOV Bypass Lanes
Minor Geometric Improvements at Bottlenecks	• Minimize surge in demand in the case of closely spaced ramps
Congestion Pricing	• Conversion of HOV lanes to HOT lanes
Lane Management of Incidents	• Opening shoulder lanes as auxiliary lanes under emergency conditions
Integrated Incident Management Program	• Overflow Parking during Major Incidents • Alternative Routes Protocol during Major Incidents

I-880 ICM Strategies
Transit/Ped/Bike Network Strategies

Parking Management	• Park-and-Ride Facilities for Non-Recurring Congestion
Transit Enhancements	• Enhanced Travel and Transit Information • Station Access Improvements • Transit Priority Measures
First-mile, Last-Mile Connections	• Shuttles • Taxis • Car-sharing • Short-Term Car Rental • Bike-Sharing
Ride Sharing	• Casual Carpooling • Ride-matching Services

I-880 ICM Strategies – Selection Criteria

- Implementation Feasibility
  - Technical Feasibility
  - Operational Feasibility
  - Institutional Deployment Feasibility
  - Financial Feasibility
- Cost and Effectiveness
- Time for Completion
- Relevance with ICM and/or Regional Congestion Management Goals
- Impacts
- Equity

Questions?

Next Steps

- Comments requested by November 30
- Next Meeting

Questions

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