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

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