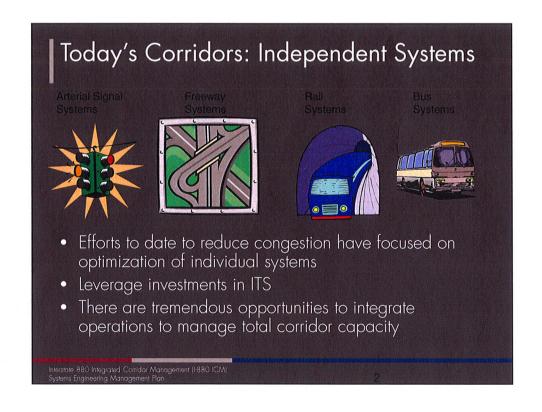
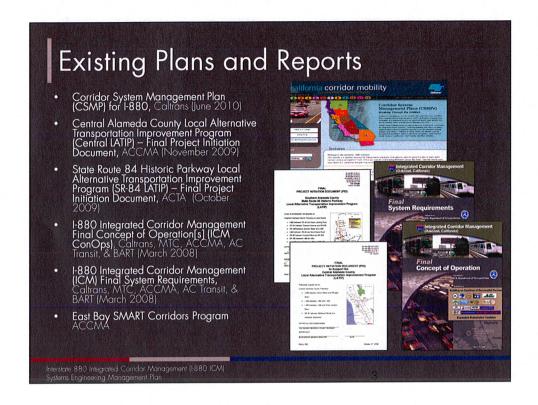
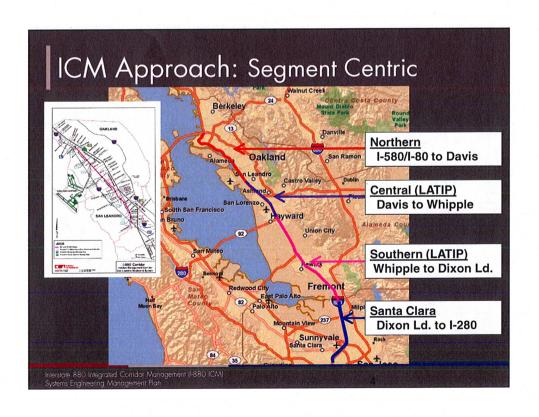
ACTAC PP Resentation 4/4/2011 Agenda Trum 5.8





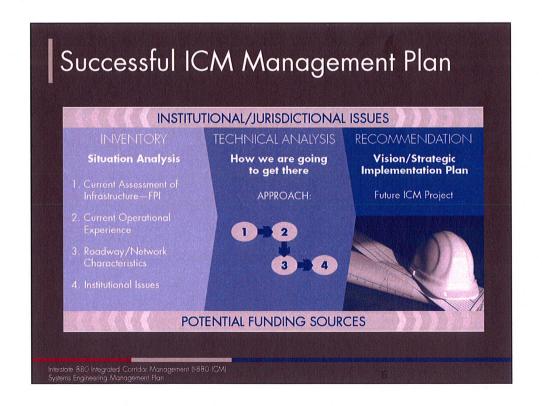




Interstate 880 Integrated Corridor Management Systems Engineering Plan

- Inventory of Existing Services & Deficiencies
- Technical Analysis
 - ICM Strategy Implementation Feasibility
 - Concept of Operations (CONOP)
 - Systems Engineering Management Plans (SEMP)
 - Performance Evaluation Plan
- Implementation Plan

Interstate 880 Integrated Corridor Management (I-880 ICM) Systems Engineering Management Plan



Potential Strategies



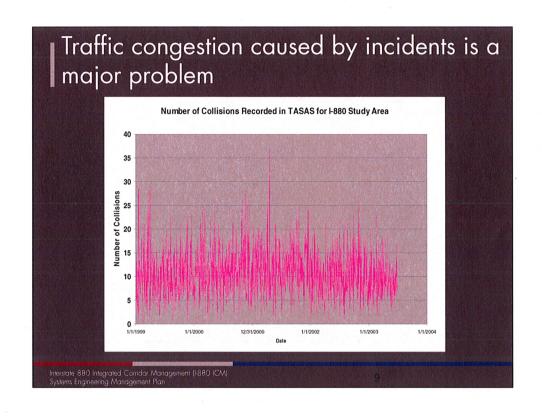
- Real time data sharing and response
 - Data Exists what is the strategy to use it?
 - Dynamic ramp metering
- Demand management
 - Spread peaks
 - Arterial management
 - Transit/Parking/HOV (move more people, not vehicles)
 - Manage goods movement
- Manage incidents
 - Reduce detection, response, and recovery time
- Special generators
 - Advance planning

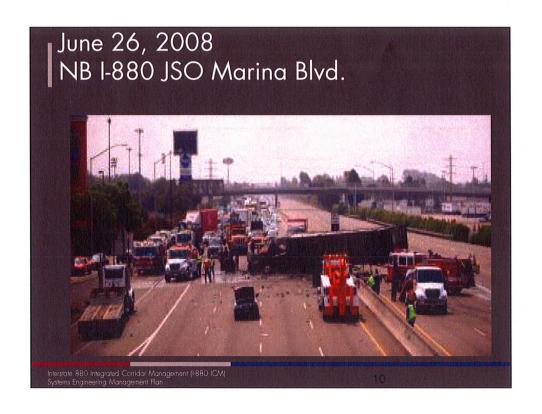
Interstate 880 Integrated Corridor Management (I-880 ICM) Systems Engineering Management Plan

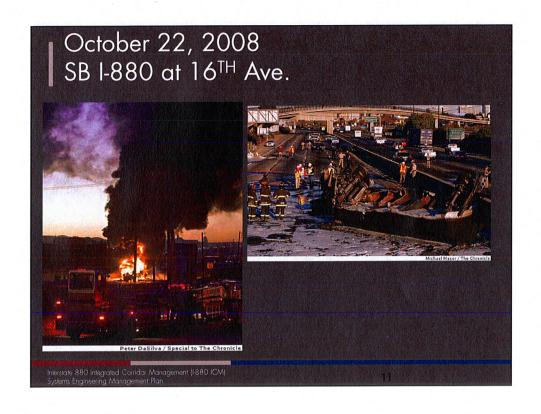
ICM CONOPS Approaches

- Principles
 - Apply systems engineering approach
 - User needs and constraints driven
 - Derive a set of prioritized and progressively deployable strategies
 - Operationally and technically feasible
 - Address institutional constraints
 - Offer maximum cost/benefit ratio
 - In compliance with ITS architecture and standards

Interstate 880 Integrated Corridor Management (I-880 ICM)









Incident Management Pilot System Detection & Verification — CCTV Management & Coordination — Trailblazer Signs — Changeable Message Signs — Arterial Dynamic Message Signs - Emergency Pre-emption Interaction 880 Integrated Coriclor Management (1980 ICM) Systems Engineering Management (1980 ICM)

Project Schedule • Start Phase 1 - Spring 2011 • Complete Phase 1 - December 2012 • Kick-off meeting with TAC - May 2011





Incident Management Pilot System

- Detection & Verification
 - CCTV
- Management & Coordination
 - Trailblazer Signs
 - Changeable Message Signs
 - Arterial Dynamic Message Signs
- Emergency Pre-emption



Alterial Divic

Interstate 880 Integrated Corridor Management (I-880 ICM) Systems Engineering Management Plan

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Arterial Incident Management Strategy

Benefits:

- Enhance arterial/transit/freeway signage and signal coordination
- Upgrade antiquated signal equipment
- Implement Adaptive Traffic Controls
- Enable remote management

Challenges & Solutions:

- O&M; RTP Bay Area Plan
- Constrained Resources; TMC & Upgraded equipment

Interstate 880 Integrated Corridor Management (I-880 ICM) Systems Engineering Management Plan

Next Steps Obtain support of local jurisdictions Convene stakeholders meeting Maximize synergy from construction CT TMP

