

California Department of Transportation
District 11 - San Diego and Imperial Counties

GOODS Movement Business Plan

FY 2010/11



 U.S. Customs and
Border Protection
Otay Mesa Port of Entry
San Diego, California



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Planning Division - July 2010



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Introduction

The California Department of Transportation, District 11 maintains an active role in goods movement planning activities within the San Diego and Imperial County regions. Through local, regional and international partnerships, the District has been successful in identifying and implementing strategies leading to improved efficiency in the flow of goods into/from the region. These efforts have focused on policy strategies, highway construction, port access improvement projects, and operational efficiencies at the international Ports of Entry (POE), seaport and air cargo facilities, and on the state highway system.

Building upon previous efforts, and integrating with new initiatives, the District has identified three key focus areas for FY 2010/11. These activities, along with supporting background information, are described below in the District 11 Goods Movement Business Plan. This plan also includes a listing of ongoing activities and/or initiatives that provides an overview of the District's goods movement planning activities for FY 2010/11.

Business Plan Elements

1) Intelligent Transportation Systems (ITS) -Technology Pre-Deployment Concept Strategy: State Route 11/Otay Mesa East Port of Entry *A Clean, Green, and Smart Approach to a New Border Crossing*

In April 2010, the US Department of Transportation (USDOT) awarded SANDAG a \$1.3 million Pre-Deployment Study Grant to support the development of a plan for an electronic tolling system that can accommodate dynamic pricing at the border. The study intent is to identify strategies that lead to a fully integrated ITS deployment for the proposed SR-11/Otay Mesa East POE, and will be coordinated with Caltrans District 11 and US DOT.

Project Goals:

SANDAG and Caltrans are pursuing multiple goals and objectives with the new POE. In planning this project, our objectives are to:

- Build additional physical capacity at the border and simultaneously optimize that capacity with state of the art ITS systems
- Finance the project predominantly as a "self-help project," significantly funded through tolls and other innovative financing tools
- Pre-plan a tolling system that can accommodate dynamic pricing at the border for congestion management and idle reduction/emissions reduction at the border
- Develop the project as a national model of public/public partnering
- Design a project that exemplifies both environmental and economic stewardship





The performance goal of the project is to reduce traffic congestion and frequent wait times of more than six hours for commercial vehicles at the Otay Mesa port crossing, and up to three-hour delays for cars at San Ysidro and Otay Mesa. The project will become part of a seamless Mexican connection to the Tijuana-Rosarito Corridor, with links to the Tijuana-Tecate and the Tijuana-Ensenada toll roads in Baja California, Mexico. On the U.S. side, SR-11 will become part of San Diego region 2030 vision for 95 miles of Tolled and high-occupancy toll (HOT) lanes in Southern California.

Project Tasks:

- Task 1: Develop Procurement Document
- Task 2: State of the Practice Learning Scan
- Task 3: Conduct Three ITS Roundtable Sessions in San Diego
- Task 4: Stakeholder Outreach and Market Development Plan
- Task 5: ITS Project Plan
- Task 6: Development of System Engineering and Management Plan (SEMP)
- Task 7: Develop ITS System Requirements Document
- Task 8: Develop Design Specifications
- Task 9: Develop Concept of Operations
- Task 10: Integration Plan
- Task 11: Procurement Development

The outcome of the phased ITS Technology Pre-Deployment will be a collaborative effort between SANDAG, Caltrans, and U.S.DOT for development of a binational model for a “Clean, Green, and Smart Border.” Funding from U.S.DOT/FHWA is being sought because this project exemplifies the paradigm shift which U.S.DOT is pursuing for ITS. Not only do SANDAG and Caltrans District 11 have a proven track record on ITS pre-deployment, and crossborder projects, these two agencies have the commitment and skills to deliver:

- A multimodal project with variable pricing and advanced traveler information
- Coordination with Mexico to develop a binational model for sustainable infrastructure and operations plan
- Maximize regional, interregional and international public/public ITS pre-deployment partnership strategies
- A test plan that is technically feasible and will be a market leader for tolled border crossings
- A clean, green and smart demonstration project with comprehensive documentation of technology options
- A project that fosters new institutional relationships to accelerate pre-deployment

2) REGIONAL FREIGHT DATA VIEWER

Origin/Destination Surveys and Vehicle Classification Counts at Port Facilities and on Key Interregional Freight Corridors

The project objective is to develop a Web Map service that displays freight data for state highway corridors and POEs. The web service will be developed in-house by the District 11 GIS Branch using existing resources.

Project Goals:

The Regional Freight Data Viewer will provide an interface for Caltrans staff to access freight data in a single, user friendly interface. Available data will include:

- Weight-In-Motion and Piezo count stations
- POE crossings (volume, commodity and value)
- Vehicle classification counts
- State Highway Average Daily Traffic
- Freight modeling/forecast data
- Crossborder wait times information
- Links to key freight studies/information

Project Tasks:

- Refine District freight database(s)
- Develop base map services
- Develop web application (including search and query tools)
- Perform beta testing with select users
- Deploy application

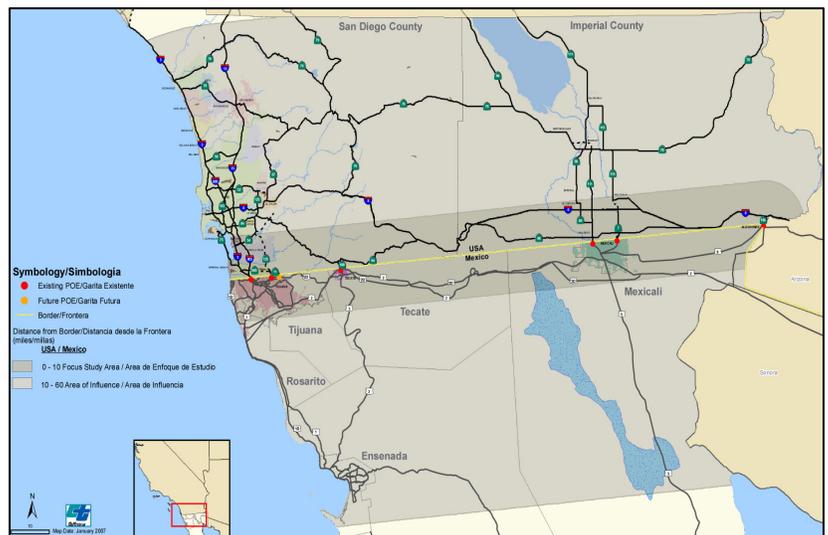
The final product developed through this project will be a web mapping application that can be used to access historic freight data, as well as forecasted freight volumes (where available). This application will be available to Caltrans staff via the intranet using a standard web browser.



3) CALIFORNIA/BAJA CALIFORNIA BORDER MASTER PLAN – TECHNICAL UPDATE 1

Binational Collaboration on Crossborder Planning and Project Development Efforts

The objectives of this Technical Update are to discuss the possible impacts of the global economic crisis on the U.S. and Mexico's federal and state



governments relative to the Border Master Plan (BMP) process; update and re-rank (as needed) the POE and transportation projects following the methodology approved by the California-Baja California Policy Advisory Committee (PAC) for the 2008 study; and provide a preliminary assessment of PAC agencies views and use of the information provided by the 2008 BMP.

Project Goals:

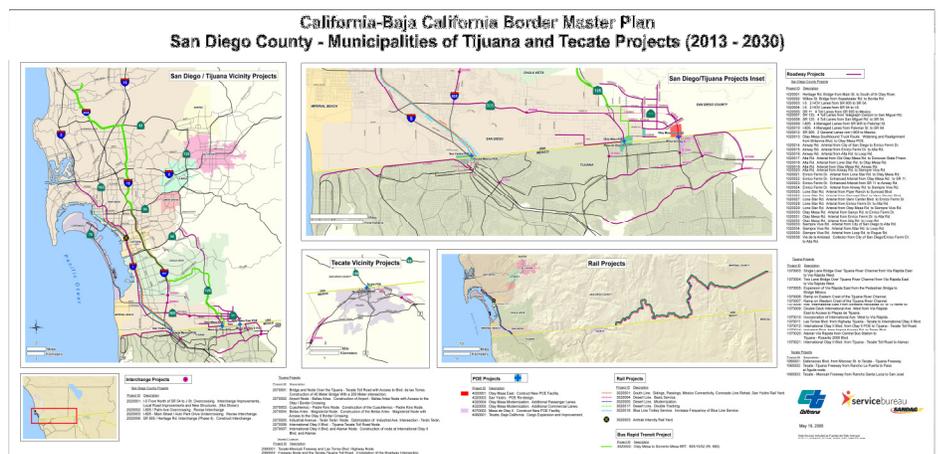
- Receive an expert narrative discussion of the economic, environmental and institutional issues on the border region. Some examples of these are the U.S. and Mexico’s economic crisis, the issuance of the Presidential Permit for Otay Mesa East Port of Entry, the imminent construction the San Ysidro POE Reconfiguration Project and its sister facility the Puerta Mexico-El Chaparral POE, and, California’s heightened awareness of climate change on binational border transportation and port of entry projects.
- Update information and progress reports on projects previously included in the BMP and to submit new ones and to provide an assessment of the impacts of new information on project priorities.
- Provide a status report of PAC identified opportunities and challenges for the BMP to be used as a component of federal, State, and local strategic plans for the CA-BC border region. Ultimately, a goal of the CA-BC BMP process is to be accepted and embraced by stakeholders throughout the border region.

Project Tasks:

The CA-BC BMP first annual technical update identifies six (6) key tasks guiding the update and final product:

- Meetings of the PAC and TWG
- Discussion/Documentation of Global and Regional Issues
- State of the Practice Questionnaire
- Update POE and Transportation Facility Project Listings
- Recommendations for Future Updates
- Draft and Final Reports

Federal stimulus funding is being pursued for the BMP Technical Update. Due to current funding constraints the BMP update was postponed to FY 2010-11. The study effort will utilize established technical and policy working groups and agreed upon processes throughout the project lifecycle to ensure consistency with the foundational BMP effort.



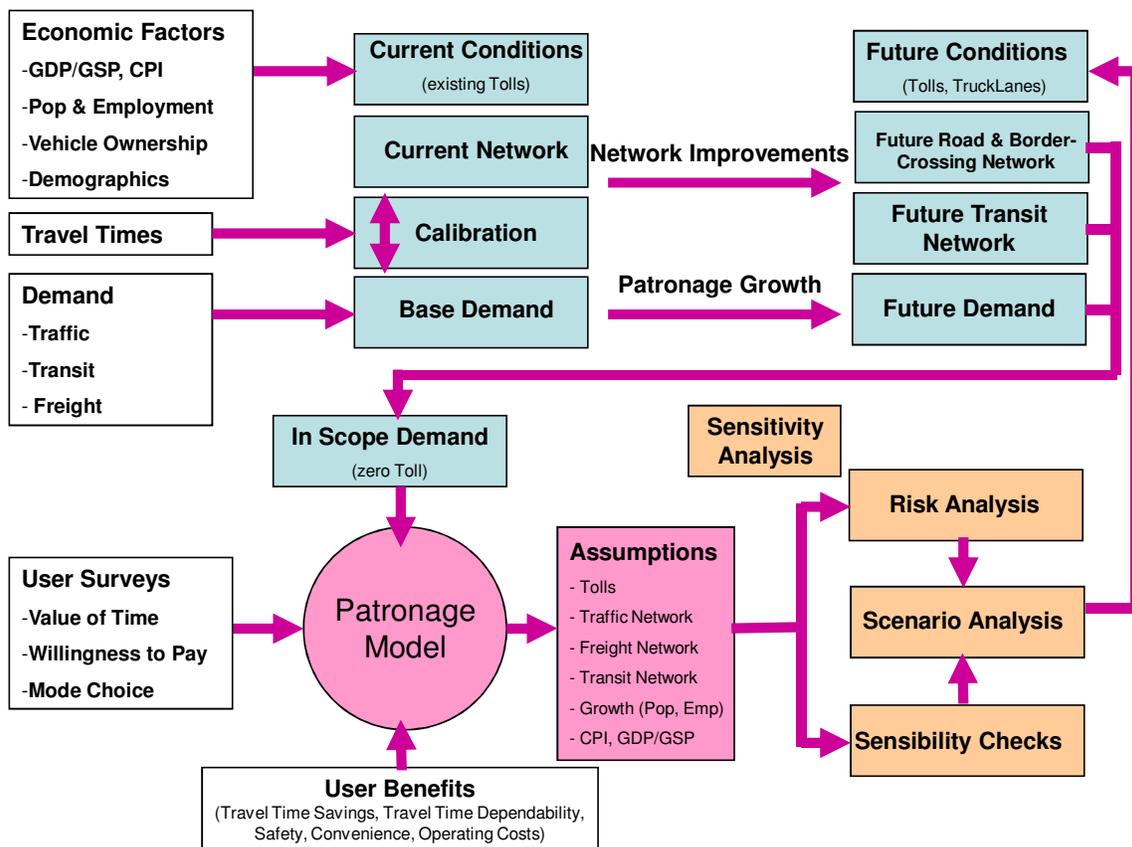
4) Otay Mesa East / Otay II Port of Entry Preliminary Traffic and Revenue Study
Binational Collaboration on Crossborder Planning and Programming Advocacy Project

A Traffic and Revenue Study for this toll facility will be developed as part of the SR-11 Otay Mesa East Port of Entry project. This study will satisfy the demands of the investment community and fully inform project stakeholders and will incorporate a number of elements but not limited to:

- Specific inclusion of the significance of freight movements in all analysis
- Extensive understanding of Border Crossing issues and challenges
- A phased approach to project feasibility, evaluation and scenario development to match goals of project

Project Tasks:

- Data Assessment and Collection
- Base Travel Demand
- Network Model Development
- Future Year Analysis



5) COMMERCIAL VEHICLE BORDER CROSSING STUDY

Partnership and Goods Movement Study

The study will assess the mobility of commerce at the California – Baja California border and develop freight planning strategies that would address long term trade and transportation infrastructure needs in the border region. Major steps will include, but not limited to, comprehensive study of binational trade and emerging business decisions and logistics strategies, transportation data collection (truck origin - destination data and travel time data) and analysis, and policy development that will be incorporated into Southern California Council of Governments (SCAG) 2012 Regional Transportation Plan (RTP).

Project Tasks:

- Overview of International Trade and Commercial Vehicle Activities at California – Baja California Border
- Cross-Border Commercial Vehicle Origin and Destination Survey
- Collection of Commercial Vehicle Border Travel Time and Delay Data
- Data Analysis and Final Study Report

SCAG is soliciting proposals from qualified consultant teams to conduct a regional commercial vehicle border crossing study. This study will build upon previous studies completed by Caltrans District 11, SANDAG, Imperial County Transportation Commission, SCAG, and FHWA.

6) ONGOING GOODS MOVEMENT ACTIVITIES

The District is also involved in many ongoing goods movement related activities including data collection and maintenance, partnership planning efforts including studies and participation on technical and policy steering committees, and project development support activities. Though the focus of this Business Plan is to highlight key new initiatives for FY 2010/11, a listing of significant current activities is included below to provide an overview of these efforts. Additional information of these activities can be found in the District's Fiscal Year 2009/10 Goods Movement Annual Report.

Capital Project Development

Port of San Diego – Freeway Access Improvement Projects

- Bay Marina Drive at Interstate 5 and Civic Center Drive at Harbor Drive and I-5
- 10th Avenue at Harbor Drive
- 32nd Street at Harbor Drive

State Route 905, from I-805 to the Otay Mesa Port of Entry

Otay Mesa Southbound Truck Export Road

San Diego-Tijuana Cross-Border Airport Terminal

State Route 11/Otay Mesa East Port of Entry

Brawley Bypass - SR-78/SR-111 Expressway

Calexico East Port of Entry Expansion Project

Planning Studies

Goods Movement Strategy for SANDAG's 2050 Regional Transportation Plan (RTP)

Partnerships/Collaboration

Infrastructure Decisions

Marine Terminal Community Committee

SANDAG's Border's Committee

SANDAG's Committee on Binational Regional Opportunities (COBRO)

West Coast Corridor Coalition (WCCC)

U.S.-Mexico Joint Working Committee (JWC)

Crossborder Wait Times PEER Exchange (through JWC)

Border States PEER Data Exchange

U.S.-Mexico Border Governors Conference (BGC)

U.S.-Mexico Binational Group on Bridges and Border Crossings

U.S. Customs and Border Protection Otay Mesa CARGO Group

CA-BC Border Liaison Mechanism (BLM)

Bi-State Transportation Technical Advisory Committee (BTTAC)

Free and Secure Trade (FAST)

Data Collection, Technical Support and Modeling

SANDAG Heavy Truck Travel Demand Model

Caltrans Statewide Freight Model Development

Data Collection and Monitoring/Forecasting

- State Highway Vehicle Classification Data
- Crossborder Freight Data Flows
- Commodity Flows and Value
- ITS Data Integration/Testing (New Detection Systems)
- GIS Data and Program Support

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