

stakeholder workshops summary report

May 2010



Prepared for the California Department of Transportation,
Division of Transportation Planning

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ATTACHMENTS

- Attachment A: Workshop Flyer
- Attachment B: Workshop Agenda
- Attachment C: Slideshow Presentation
- Attachment D: Other Workshop Handouts
- Attachment E: Interactive Polling Detailed Results
- Attachment F: Flipchart Notes From All Workshops

WORKSHOP OVERVIEW

During the fall of 2009, the Caltrans Division of Transportation Planning undertook an ambitious new initiative, the California Interregional Blueprint (CIB). Building on the solid foundation of Blueprint land use-transportation planning completed or in process in most of California's regions, Caltrans seeks to integrate those Blueprints as the basis for developing its own interregional multi-modal transportation plans. Specifically, Caltrans would like to develop a statewide CIB to serve as the foundation for the next update of the California Transportation Plan, the CTP 2040.

To be successful, the CIB initiative requires a strong partnership, involving sharing of data, information, and modeling practices between Caltrans and each of the regions of the State. It also requires internal information-sharing and coordination among all twelve Caltrans districts.

In order to introduce the CIB concept and solicit initial feedback on the purpose and workplan for the CIB, the Division of Transportation Planning held a series of six nearly-identical workshops specifically aimed at transportation professionals. The workshops were held from 1:00 – 4:00 p.m. on these dates and at these locations:

CITY	DATE	LOCATION
Sacramento	February 16, 2010	Secretary of State Building
San Diego	March 1, 2010	Caltrans District 11
Los Angeles	March 2, 2010	Southern California Association of Governments
Redding	March 17, 2010	Shasta County Public Library
Fresno	March 22, 2010	City Council Chambers
Oakland	April 6, 2010	Metropolitan Transportation Commission

Participation was solicited primarily through a flyer distributed by the Caltrans districts to transportation professionals at regional and local transportation agencies (Attachment A), and was also announced on the Web portal that Caltrans uses for the California Transportation Plan (and now the CIB): www.californiainterregionalblueprint.org.

All six of the workshops were Webcast and workshop materials were available on the Web portal for those attending by webcast. Several of the webcasts were also made available later to view on the web.

The workshop materials consisted of a packet with agenda (Attachment B), a copy of the PowerPoint (Attachment C), a process graphic, information on SB 391 (Senator Liu), and materials on Modal Plan Summaries and Maps, Statewide Program fact sheets, the Draft CIB Narrative Outline and Maps, and a fact sheet on the statewide model framework (Attachment D).

After each presentation, the in-person participants were asked their opinions on the key topics using interactive polling technology provided and operated by Charles Anders of Strategic Initiatives. Each participant was provided a remote FM radio input terminal to respond to questions generated by

computer and projected on a large screen. The results were tabulated and immediately presented back to the group as a catalyst for discussion (detailed results are shown in Attachment E). Questions and comments from the participants were then recorded on flipcharts (Attachment F).

Demographic information was collected to assess the different perspectives of participants based on workshop location, what organization they represented, and their role within that organization.

This report presents the combined results of the interactive polling conducted at all six statewide workshops. It is important to note that the interactive polling process conducted at the workshop venues (but not available to Webcast participants) was designed to stimulate discussion and understanding of the perspectives of the various participants. The polling results in this document should be understood in light of those observations and conclusions. The number of participants may vary among polls since all participants may not have participated in every poll.

PARTICIPANTS

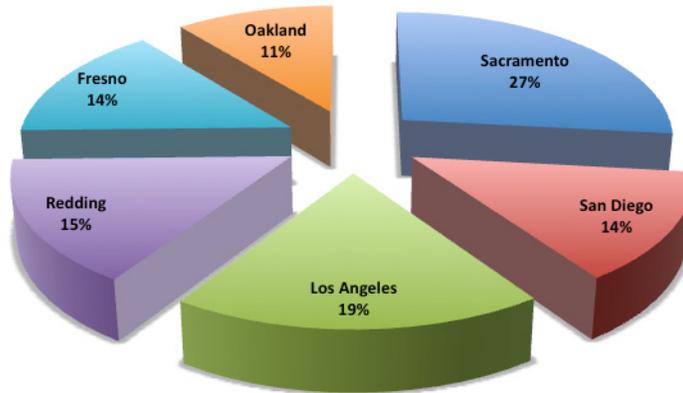
Total attendance was 880, with the majority attending by Webcast:

LOCATION	IN-PERSON	WEBCAST
Sacramento	68	140
San Diego	29	108
Los Angeles	35	121
Fresno	35	97
Redding	34	83*
Oakland	26	104
TOTAL	227	653
GRAND TOTAL	880	

*Interrupted due to technical difficulties

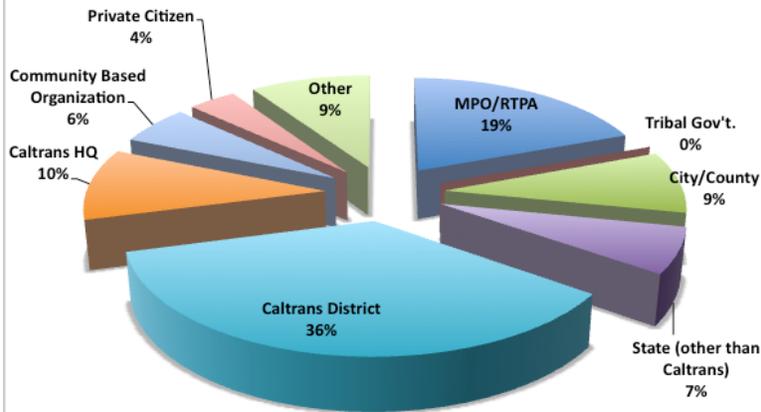
The following charts show demographic information collected through electronic polling at the beginning of the workshops. Because fewer people used the polling technology than actually attended in person, the numbers are slightly lower than the attendance numbers.

Meeting Location



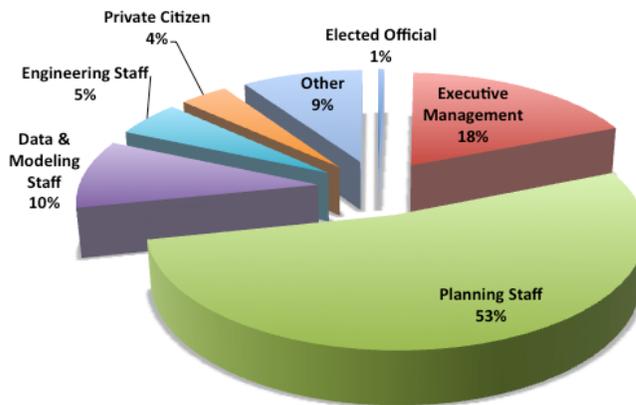
A total of 213 participants responded to this demographic question

What Type of Organization Do You Represent?



A total of 213 participants responded to this demographic question

Which Best Describes Your Role?



A total of 212 participants responded to this demographic question

RESULTS BY AGENDA TOPIC

In the following sections, the workshop polling results as well as key comments and questions are organized by workshop agenda topic. Because the agenda and some of the polling questions changed slightly after the first workshop in Sacramento, some of the results are not comparable across all workshops. These are noted in the text. More details on the content of the presentations are available in the PowerPoint (Attachment B) and in the recorded Webcasts (www.californiainterregionalblueprint.org).

Each workshop started with a welcome from a regional transportation leader and opening remarks by Martin Tuttle, Caltrans Deputy Director of Planning and Modal Programs. Mr. Tuttle reviewed the background and rationale for the CIB initiative as well as California's challenges of the economy, growth, an aging population, climate change and air quality, and chronic budget deficits.

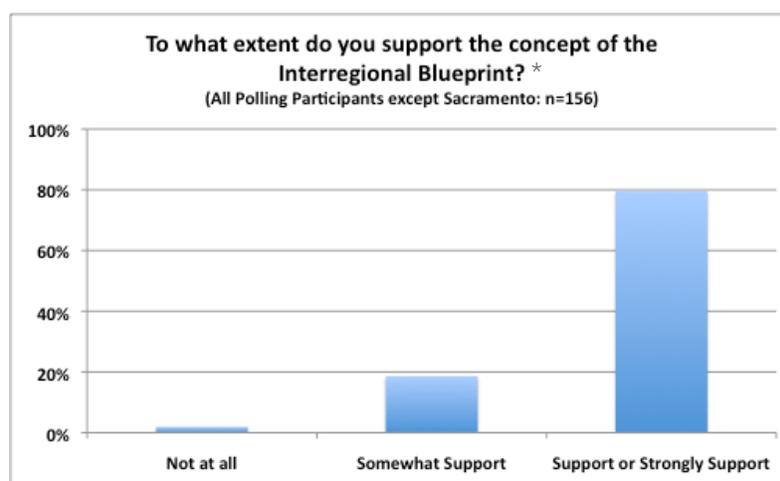
California Interregional Blueprint Highlights

Depending on the workshop location, either Sharon Scherzinger, Caltrans Chief of the Division of Transportation Planning, or Nathan Smith, Caltrans Chief of the Office of State Planning, provided the highlights of the CIB.

After this presentation Mr. Anders asked an interactive polling question and facilitated a discussion of the results among the participants.

At all of the workshops except the first one in Sacramento, participants were polled about their support of this initiative.

Clearly, the large majority (80%) support this initiative (46% strongly support and 34% support).



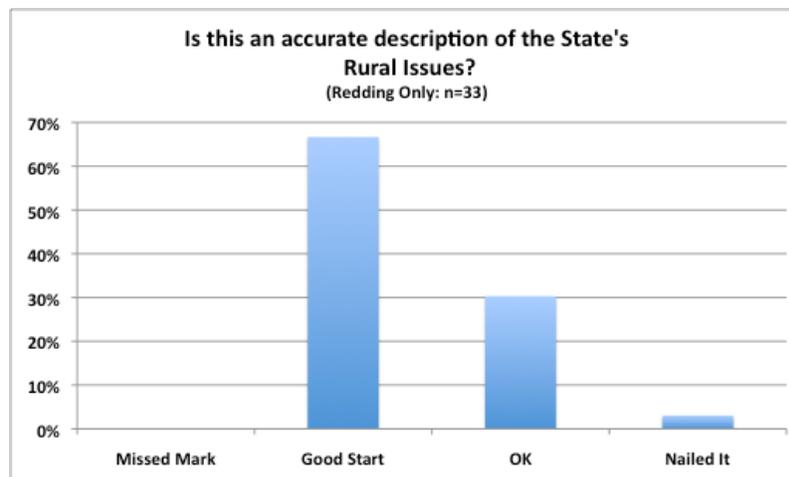
*In Sacramento, the question was asked somewhat differently and later in the discussion, with 92% supporting or strongly supporting the effort.

Comments and Concerns

- CIB is important in addressing climate change (San Diego)
- Support to the extent that it helps with interregional and internal state departments coordination (Fresno)
- We need the multimodal, holistic perspective that the CIB offers (Fresno)
- CIB exercise is very valuable – highlights best practices of regions in the face of limited resources (Oakland)
- Concern about use of data – and how to ensure data is adequately addressed by decision-makers (Oakland)
- Level of commitment to this effort by the State (Los Angeles)

In Redding, an additional polling question was asked about the following list of rural issues:

1. Safety is a significant concern in rural areas
2. Impact of goods movement on the rural and interregional system
3. Funding transportation to sparse, widely distributed population
4. Lack of communication infrastructure, particularly broadband

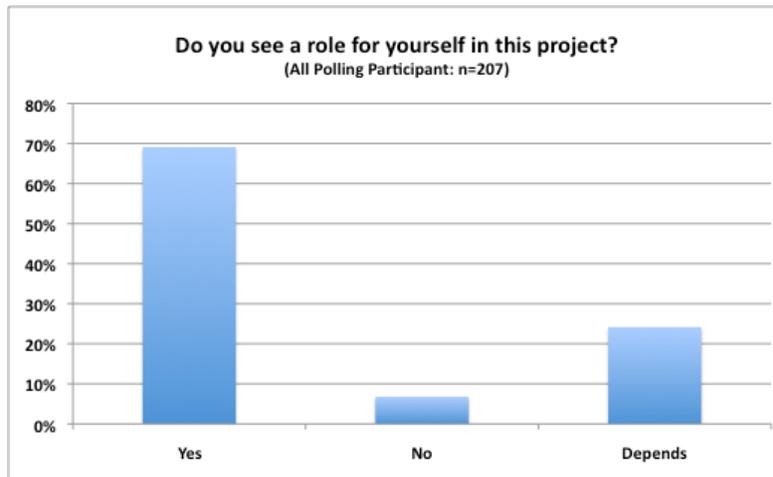


Comments and Concerns (Redding workshop only)

- Need to consider the impact of recreational traffic (weekend traffic), not just commuter traffic, on rural roads
- Need to address how RTPAs fit in the CIB – versus the MPOs
- Concerned about cross-border impacts (e.g. Del Norte County and Oregon)
- Sample size in rural area for household travel survey is too small, so may need oversampling

Integrating Statewide Plans and Programs

Pam Korte, Caltrans Acting Project Manager of the CIB project, then gave a presentation on how Caltrans proposes to integrate statewide plans and programs into the CIB. Mr. Anders asked the participants a follow-up polling question about their own participation:

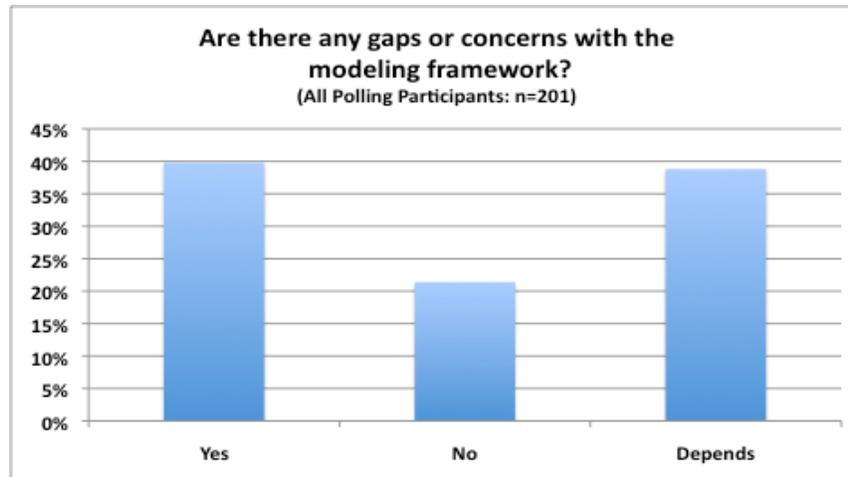


Comments and Concerns

- Sharing data and planning information (Sacramento)
- Ensuring regional transportation plans are linked to state plans and interregional blueprint (Los Angeles)
- Educating stakeholders on public health and the transportation connection (Los Angeles)
- Inviting partners to consolidate vision and implement this plan (Los Angeles)
- Addressing goods movement in Imperial County (San Diego)
- State's commitment to the initiative (Redding)
- Ensuring public health needs are addressed and persuading politicians to get blueprint planning done (Fresno)

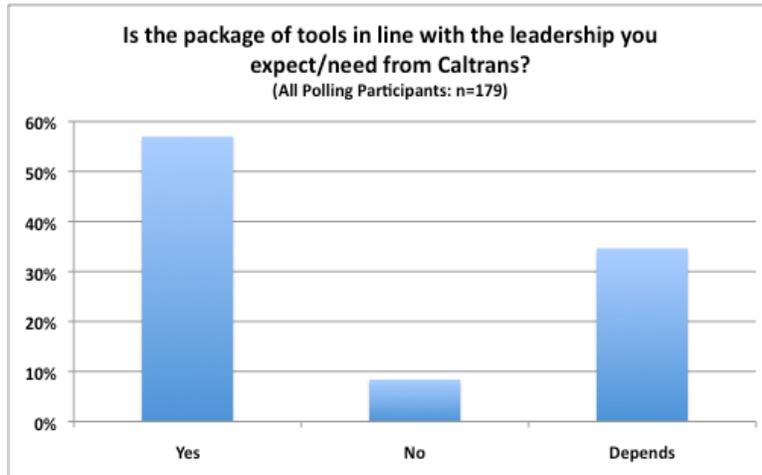
Moving into a New Transportation Era

Mike McCoy, of the UC Davis Urban Land Use and Transportation Center, then delivered a presentation on the statewide modeling framework that is being developed for Caltrans by UC Davis in support of the CIB effort. He also explained that there will be a California household travel survey conducted in 2010-2011 time frame (and delivered in 2012) that will support the regional and statewide models. Mr. Anders then asked the following polling questions and many comments and questions were identified.



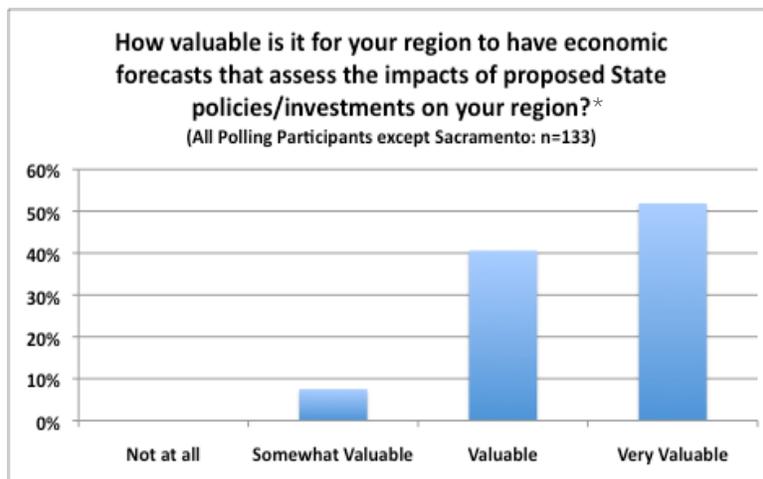
Comments and Concerns

- Concerns about how rural areas are represented in the model; how statewide model is vetted with the regional models; how interregional trips are defined; and how the State will reconcile conflicting data (Sacramento)
- The state needs to create appropriate scenarios for the modeling framework that help us understand the true costs of the jobs-housing imbalance in the State (Sacramento)
- Ensure good social and economic data and trends in the model (San Diego)
- Transparency in data analysis and modeling are key – need to share data; address how models will be maintained and updated; ensure consistency with MPO data; and ensure biking and walking included in the modeling framework (Los Angeles)
- Consider oversampling rural California in the survey (Redding, Fresno)
- Ensure public health concerns are addressed in the modeling (Fresno)
- Address political influence in the modeling process (Oakland)
- Concerned that State will have sufficient data for activity-based modeling (Oakland)
- Coordination of statewide household travel survey with national household travel survey (Oakland)



Comments and Concerns

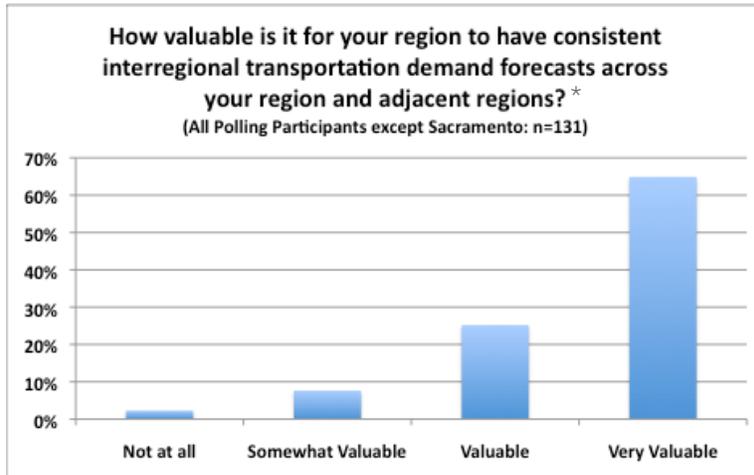
- Tools are important but issues are how they are presented to decision-makers and keeping tools simple (Redding)
- Need to consider pricing as one of many solutions (San Diego)
- Will new US Census results be integrated? (Sacramento)
- How will initiative affect selection of projects and project delivery? (Redding, San Diego)



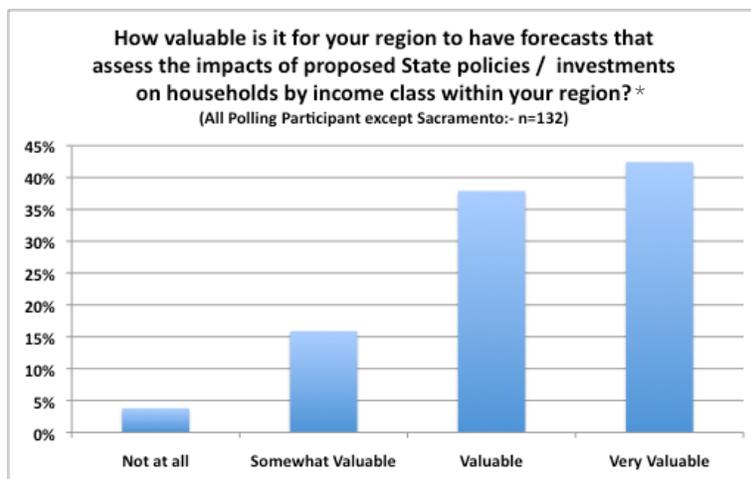
*In Sacramento, the question was posed as a yes/no question, with 95% saying these economic forecasts would be valuable.

Comments and Concerns

- It's good that the state is providing the modeling framework – smaller agencies can't do it (Fresno)



*In Sacramento, the same question was posed as a yes/no question with 95% indicating that consistent interregional transportation demand forecasts would be valuable.



*In Sacramento, the same question was posed as a yes/no question with 86% indicating that consistent interregional transportation demand forecasts would be valuable.

What's Next/Wrap Up

At the end of the workshop, Martin Tuttle concluded the presentations by informing participants about the next steps in the process and how to stay informed and engaged in the CIB process. At the Sacramento and San Diego workshops, Mr. Anders followed up with a few last interactive polling questions asking whether Caltrans was on the right track with the Interregional Blueprint effort. At these workshops, 73% of the participants agreed that Caltrans was on the right track with this effort, while an even larger number indicated support for the next steps as proposed by Caltrans.

workshop flyer

A New Plan

FOR A NEW TRANSPORTATION ERA

Integration of State Plans, Regional Transportation Plans, and Regional Blueprint Planning in Relationship to SB-375 and AB-32 Goals

The California Department of Transportation (Caltrans) invites your input on the new **California Interregional Blueprint**. The **California Interregional Blueprint** will be the foundation of the next California Transportation Plan and will be responsive to SB 375 and AB 32 goals. Caltrans will host six workshops throughout the state to provide an opportunity for you to:

- influence **long-range transportation planning** goals, policies, and strategies; and
- provide input into the **statewide data modeling framework**.

The workshops feature informational presentations, large group discussions, and electronic polling (so that everyone can instantly see the group's response to questions that are posed).



For more information, e-mail Maria Mayer, MIG Inc., at mariam@migcom.com or call her at 510-845-7549 (voice) or 711 (TTY). If you need physical accommodations or other assistance, please contact Maria as soon as possible, but no later than 2 work days before the workshop you plan to attend.

JOIN US! Workshop dates, times and locations are listed below. No RSVP necessary. Please arrive at least 15 minutes early for sign in and refreshments. The workshops will begin promptly.

OR CHECK IN! All workshops will be webcast. If you'd like to participate in the webcast, join us at: <http://livemsmmedia.dot.ca.gov/channel12>.

WORKSHOPS

SACRAMENTO

Tuesday, February 16, 2010
1:00 - 4:00 p.m.
Secretary of State Building
1500 11th Street, 1st Floor
Auditorium

SAN DIEGO

Monday, March 1, 2010
1:00 - 4:00 p.m.
Caltrans District 11, Garcia Room
4050 Taylor Street

LOS ANGELES

Tuesday, March 2, 2010
1:00 - 4:00 p.m.
Southern California Association
of Governments
818 W. Seventh Street
12th Floor Board Room

REDDING

Wednesday, March 17, 2010
1:00 - 4:00 p.m.
Shasta County
Public Library Community Room
1100 Parkview Avenue

FRESNO

Monday, March 22, 2010
1:00 - 4:00 p.m.
City Council Chambers
2600 Fresno Street

OAKLAND

Tuesday, April 6, 2010
1:00 - 4:00 p.m.
Metropolitan Transportation
Commission MetroCenter Auditorium
101 Eighth Street

workshop agenda

a new plan

FOR A NEW TRANSPORTATION ERA

Integration of State Plans, Regional Transportation Plans, and Regional Blueprint Planning in Relationship to SB 375 and AB 32 Goals

california interregional
blueprint workshop

AGENDA

Welcome/Opening Remarks

Caltrans Management

Introductions/Workshop Housekeeping

Joan Chaplick, MIG, Inc.

California Interregional Blueprint (CIB) Highlights

Sharon Scherzinger, Caltrans Chief Division of Transportation Planning

Integrating Statewide Plans and Programs

Pam Korte, Caltrans Acting Project Manager CIB

Moving Into a New Transportation Era

Mike McCoy, UC Davis Urban Land Use and Transportation Center

What's Next/Wrap Up

Martin Tuttle, Caltrans Deputy Director for Planning and Modal Programs

Adjournment



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slideshow presentation



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California Interregional Blueprint Workshop



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Housekeeping

Joan Chaplick
Consultant MIG Inc.



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Welcome to the kickoff workshops for the

California Interregional Blueprint

A New Plan for a New Transportation Era

www.californiainterregionalblueprint.org

Questions:

nathan_smith@dot.ca.gov



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Welcome/Opening Remarks

Martin Tuttle

Caltrans Deputy Director Planning & Modal Programs

Caltrans and Regional Management



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California Interregional Blueprint Highlights

California's Challenges

- Economy
- 54 million people by 2040
- Aging Population
- Climate Change and Air Quality
- Chronic Budget Deficits



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Facilitation and Interactive Polling

Chuck Anders
Strategic Initiatives, Inc.



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California Interregional Blueprint Highlights

Sharon Scherzinger

Caltrans Chief, Division of Transportation Planning



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California Interregional Blueprint Highlights

- Enhancing the scope of the next update – the California Transportation Plan (CTP) 2040
- Launching the first statewide effort to integrate proposed rail, goods movement, interregional road and other strategic transportation projects into a single document
- Improving decision making for better project delivery



California Interregional Blueprint Highlights

Definition of *Interregional*

As trips

- *Travel that crosses a regional (MPO/RTPA) boundary*

As road function

- *Some critical to travel within region*
- *Interregional roads critical for mobility between regions*



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California Interregional Blueprint Elements

- Integrating statewide modal plans, and
- Building upon existing Regional Transportation Plans and Regional Blueprint Plans



California Interregional Blueprint Highlights

- SB 391 requires the State Transportation Plan by December 31, 2015 to identify an integrated, multimodal system needed to achieve the AB 32 targets
- Requires interim report by December 31, 2012, based on SB 375 sustainable communities strategy (SCS) targets
- California Interregional Blueprint process ensures shared compliance in SB 391 based on your SB 375 SCS targets



California Interregional Blueprint Action Plan

- Phase I – Produce a snapshot of where we are today-- using the best available data – and report to BTH by September 2010
- Phase II -- Build more robust data and modeling tools by 2012 to evaluate the system and test scenarios
- Interim Report due December 31, 2012
- Enhance scope of the existing California Transportation Plan (CTP) for 2040 -- due December 31, 2015



California Interregional Blueprint Outcomes

- Better information on interregional travel
- Better data and tools
- Coordinated approach to planning and modeling
- AB 32, SB 375, and SB 391 compliance
- Make the next California Transportation Plan (CTP) update more relevant



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Questions and Comments



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Integrating Statewide Plans & Programs

Pam Korte

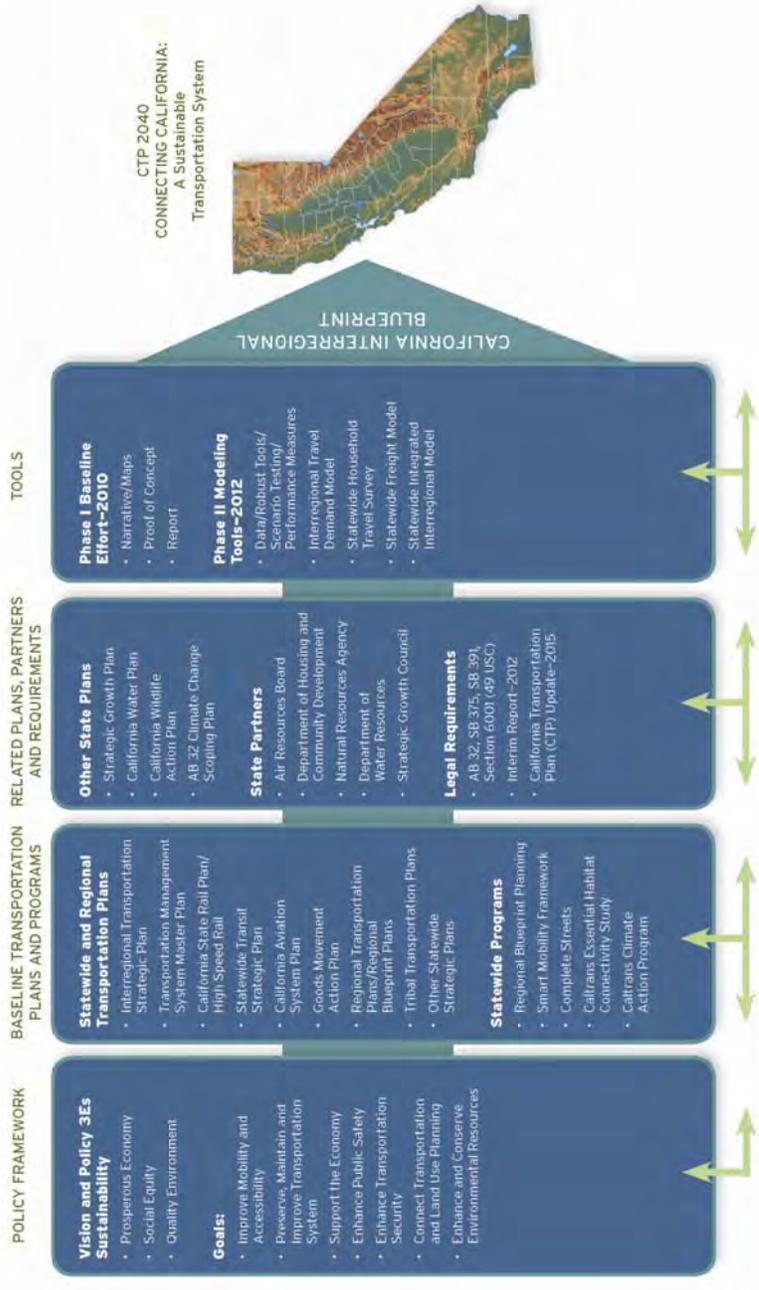
Caltrans Acting Project Manager, CIB Initiative



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Integrating Statewide Plans & Programs



A New Plan for a New Transportation Era

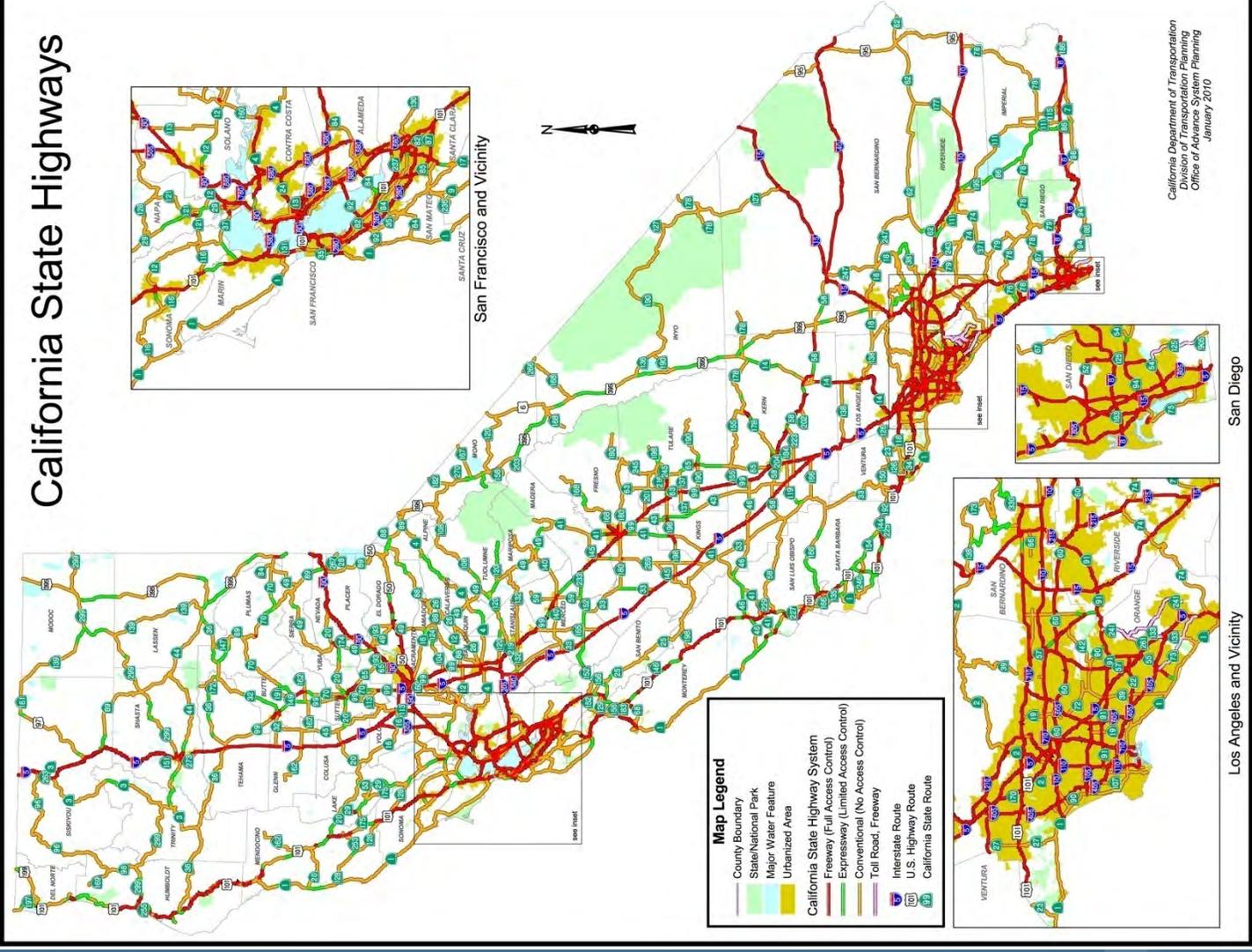


Integrating Statewide Modal Plans

- State Highway System: *Interregional Transportation Strategic Plan*
- Passenger Rail: *California State Rail Plan*
- Goods Movement: *Goods Movement Action Plan*
- Public Use and Military Airports: *California Aviation System Plan*
- Transit: *Statewide Transit Strategic Plan (concept draft)*

The State's Role in the Highway System State Highway System

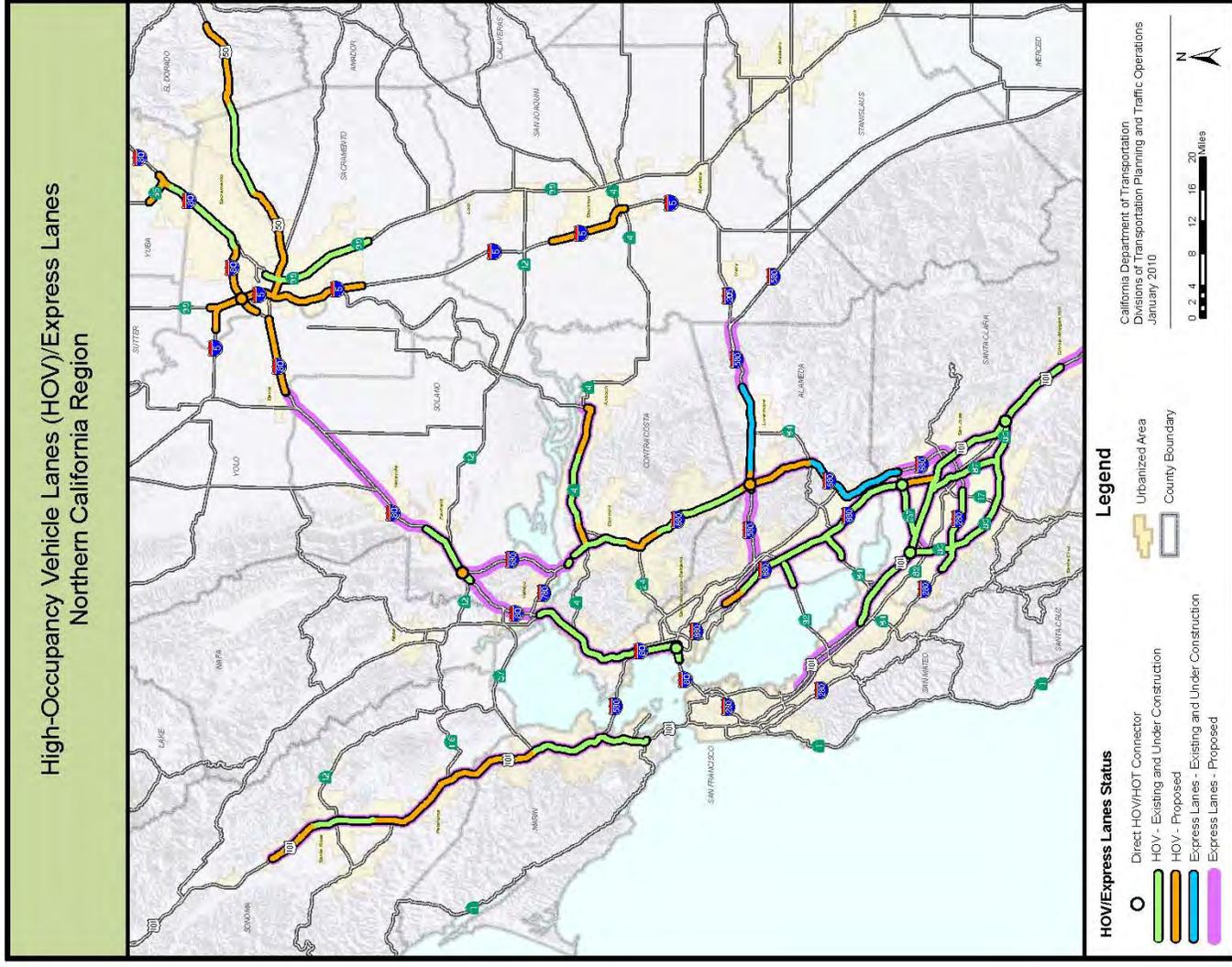
California State Highways



The State's Role in the Highway System

High Occupancy Vehicle (HOV) Express Lanes

No. California



The State's Role in Passenger Rail Intercity, Commuter and High Speed Rail

California Intercity and Commuter Rail Network Proposed Intercity, Commuter and High Speed Rail Services

Proposed Frequency Increases on Existing Intercity Corridors

Intercity Corridor	2010	2018
Pacific Surfliner	11	13
San Joaquin	5	6
Coast Starlight	2	3
San Joaquin - Lodi Corridor	2	3
Capitol Corridor	4	5
San Joaquin - Sacramento	2	3
San Joaquin - Sacramento	4	5
San Joaquin - Sacramento	1	1
San Joaquin - Sacramento	1	1
San Joaquin - Sacramento	1	1
San Joaquin - Sacramento	1	1

LEGEND of PROPOSED RAIL SERVICES

Intercity Rail Services

- (A) Sacramento – Redding
- (B) Auburn – Reno
- (C) San Luis Obispo – San Francisco
- (D) Los Angeles – Indio

Commuter Rail Services

- (E) Auburn – Oakland Commuter
- (F) Sonoma Co. – Marin Co. (SMART)
- (G) ACE Proposed Extensions (4 lines)
- (H) Dumbarton Rail Corridor
- (I) Caltrain Salinas Extension
- (J) Santa Barbara – Ventura Co. Commuter
- (K) Metrolink Santa Paula Branch
- (L) Metrolink Perris Extension

High Speed Rail

- 1 CA High-Speed Rail – Phase 1
- 2 CA High-Speed Rail – Phase 2 (3 lines)
- 3 Altamont Corridor Project
- 4 Desert Express – Phase 1
- 5 Desert Express – Phase 2

CURRENT SERVICE LEGEND

Intercity Services

- Capitol Corridor*
- San Joaquin*
- Pacific Surfliner*
- Antrak Thruway
- Motorcoach Services (most intermediate stops not shown)
- Antrak Interstate Rail Routes

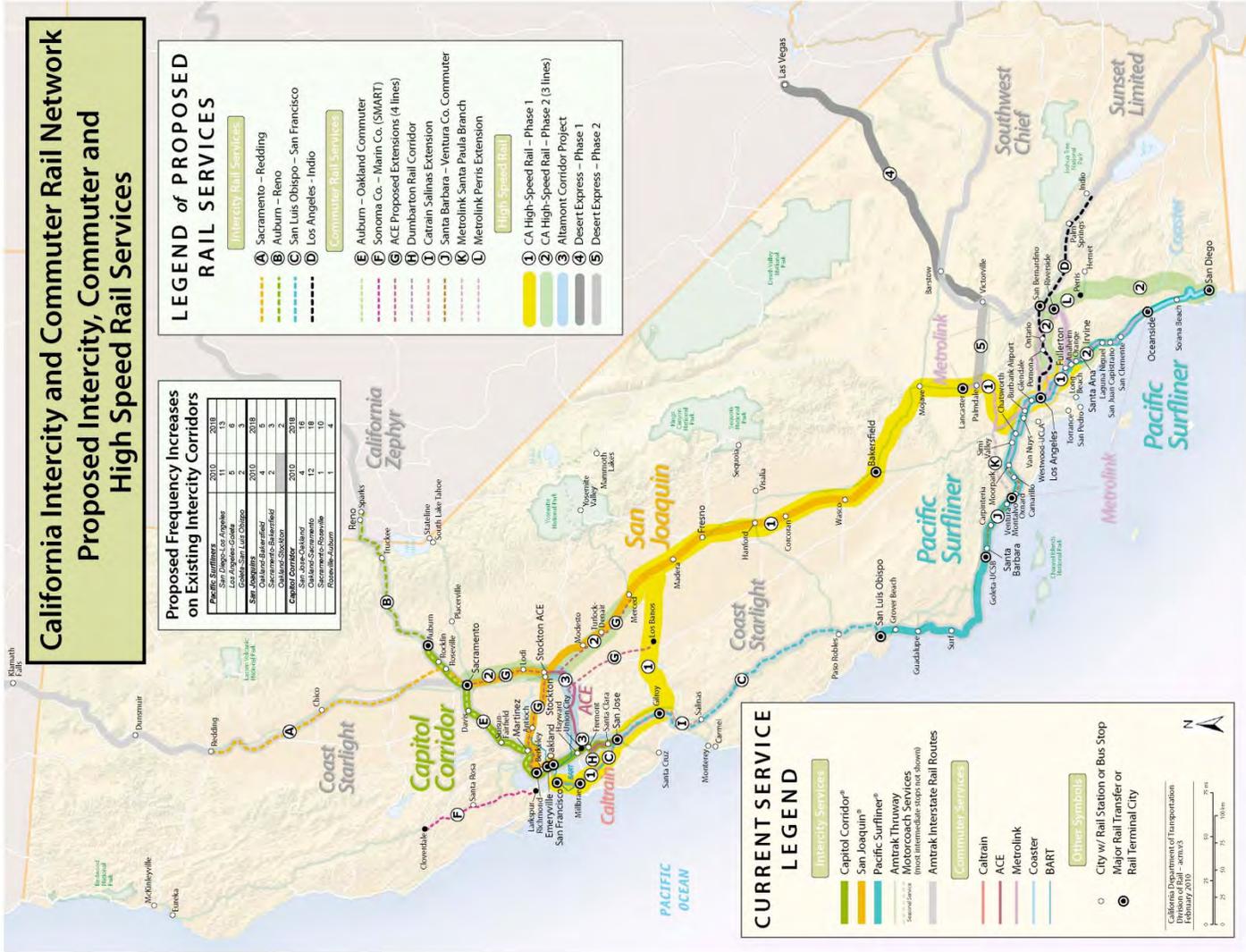
Commuter Services

- Caltrain
- ACE
- Metrolink
- Coaster
- BART

Other Symbols

- City w/ Rail Station or Bus Stop
- Major Rail Transfer or Rail Terminal City

California Department of Transportation
January 2010



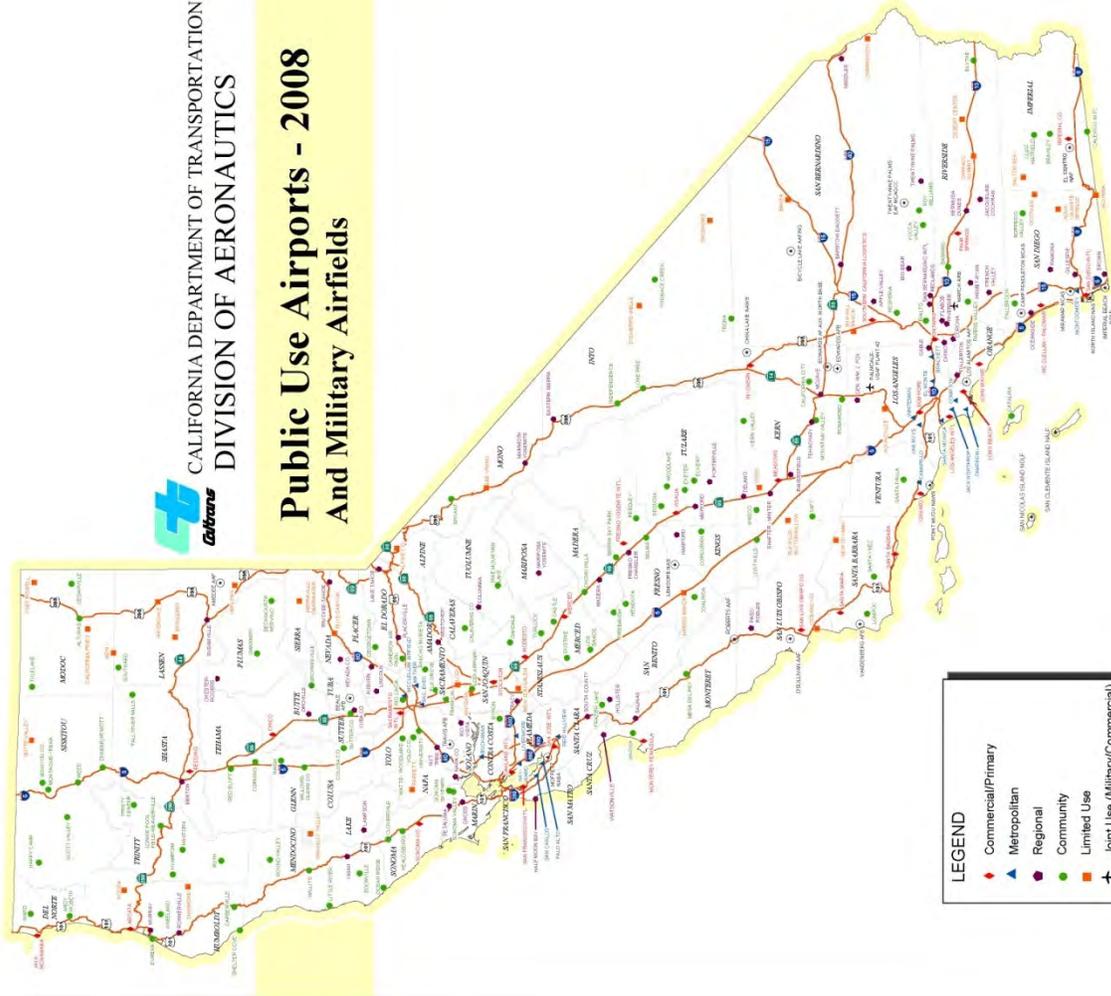
The State's Role in Public Use and Military Airports

Public Use Airports



CALIFORNIA DEPARTMENT OF TRANSPORTATION
DIVISION OF AERONAUTICS

Public Use Airports - 2008 And Military Airfields



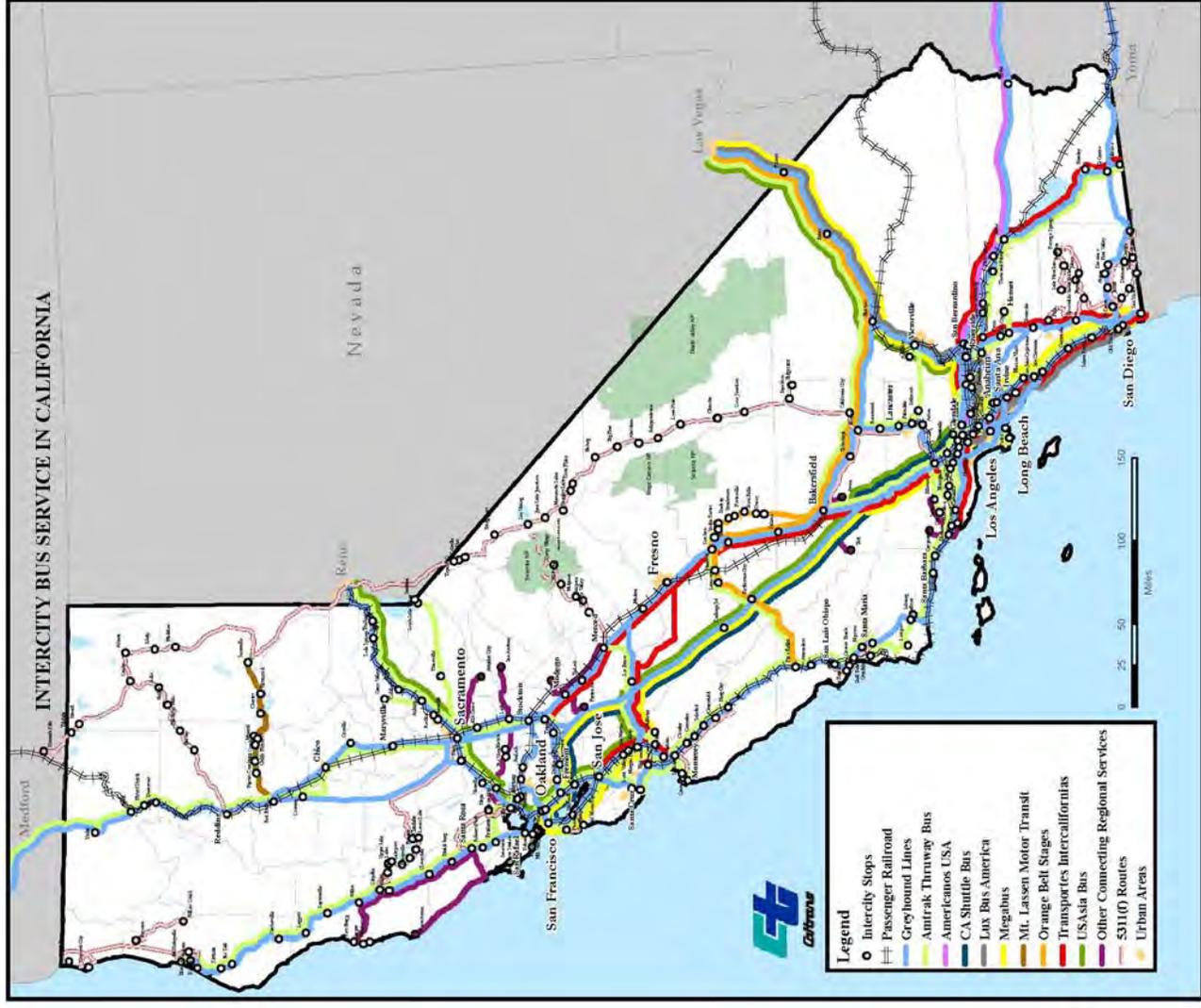
LEGEND

◆	Commercial/Primary
▲	Metropolitan
●	Regional
■	Community
■	Limited Use
▲	Joint Use (Military/Commercial)
○	Military/NASA



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Division of Aeronautics
Rev. February 2008

The State's Role in Transit Intercity Bus Service





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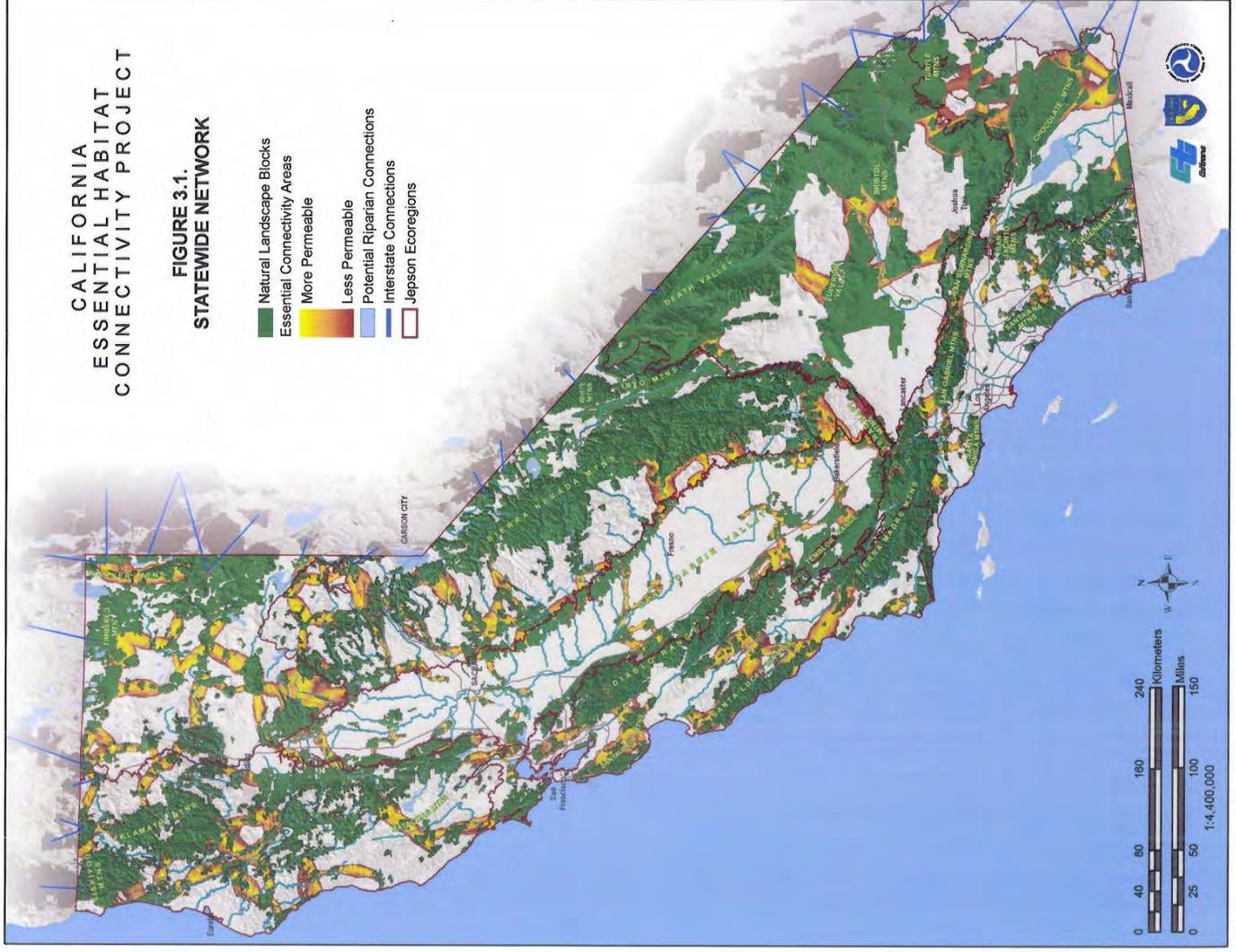
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Integrating Statewide Programs

- Regional Blueprint Planning
- Smart Mobility Framework
- Complete Streets
- Caltrans Essential Habitat Connectivity Study
- Caltrans Climate Action Program

Integrating Statewide Programs

Caltrans Essential Habitat Connectivity Study





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Questions and Comments



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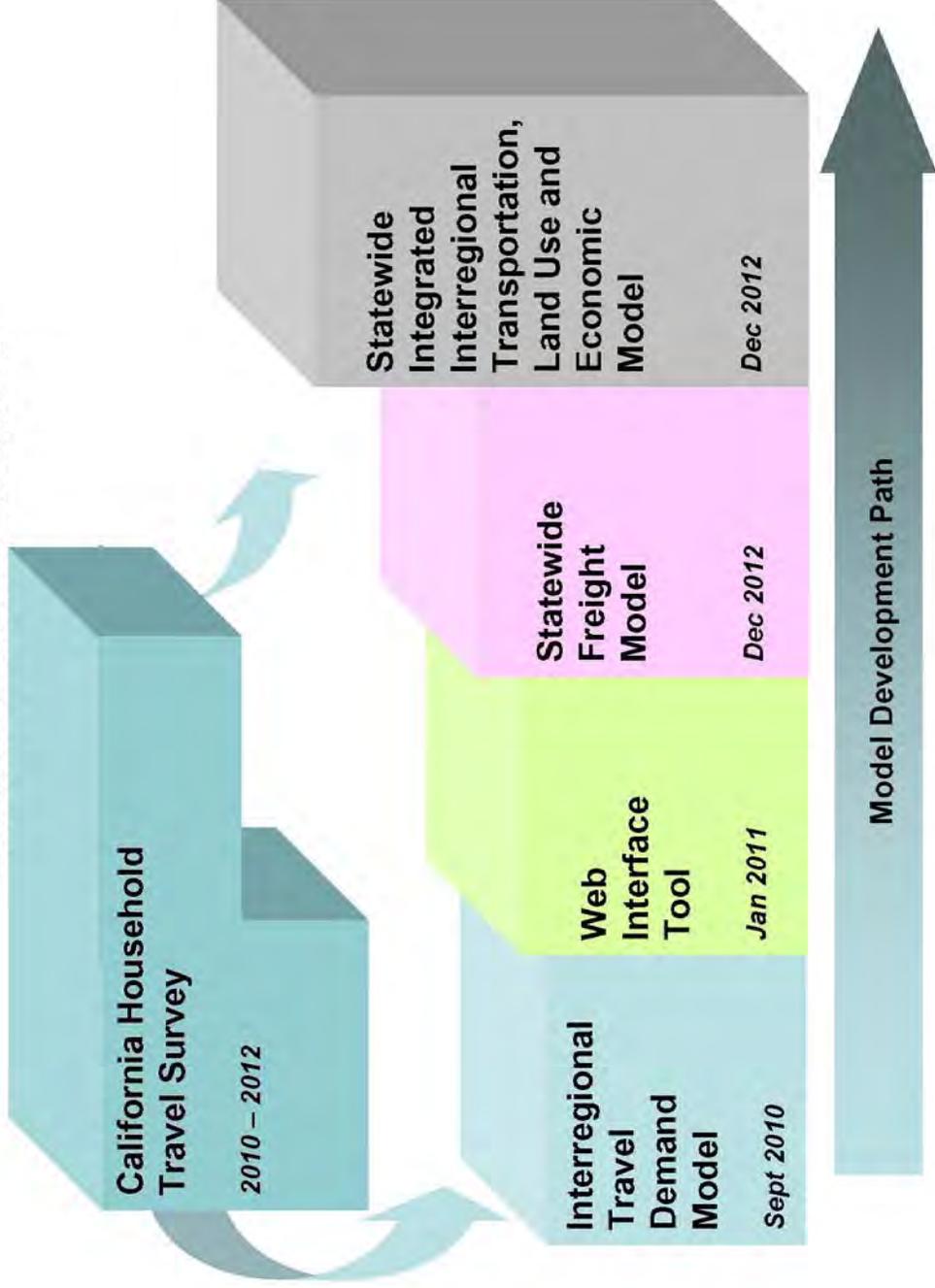


Moving Into a New Transportation Era

Mike McCoy

UC Davis, Urban Land Use and Transportation Center

Statewide Model Framework





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Moving Into a New Transportation Era

Air Freight

Regional Airports

Major Ports

Ports of Entry

Interregional Bus

High Speed Rail

Amtrak Routes

International Rail Routes

High Emphasis/Focus Routes

International Trade Routes

Goods Movement Priority Areas

Blueprint Stitch

Urbanized Areas

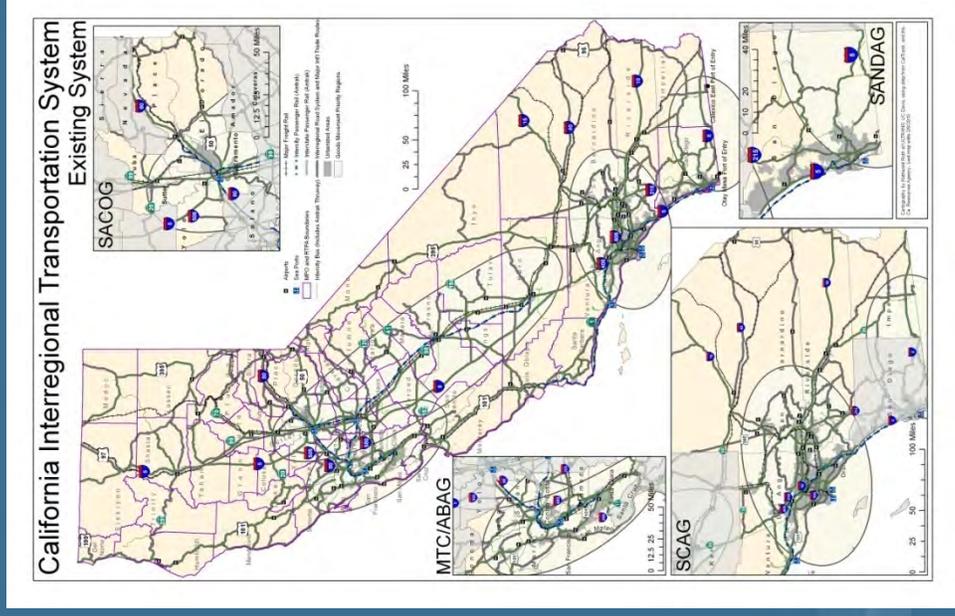
County Boundaries

Regional Transportation Plans

Interstate Highways

Moving Into a New Transportation Era

- Existing Interregional System





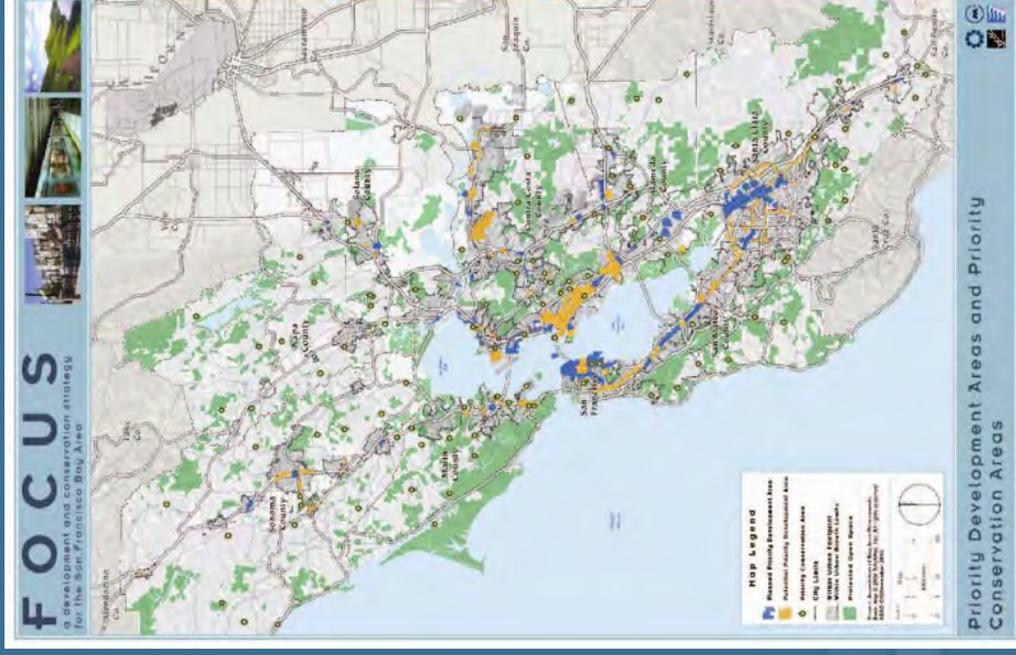
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Moving Into a New Transportation Era

FOCUS

Development and Conservation Strategy for the San Francisco Bay Area



Moving Into a New Transportation Era

- New direction of MPO vision plans will support reduced GHGs
- Interregional system plans need analysis to determine impact on GHG
- **Interregional Blueprint Action:** Complete Statewide Transportation Demand Model (STDm), Statewide Freight Model (SFM) and the Statewide Integrated Interregional Model (SIIM) to coordinate modal plans and test GHG reduction solutions



Moving Into a New Transportation Era

- Interregional Travel is Impacted by Regional Actions
 - Whether through trips or origin-destination trips long distance travel is impacted by regional plans
 - Interregional plans must be made in light of regional decisions
- **Interregional Blueprint Action:** Accelerate support for regional integrated models common data development including the joint California Household Travel Survey and Freight Model

Moving Into a New Transportation Era

- Planning at the MPO Boundaries
 - Capacity planning differences exist on adjoining roadways
 - Model results for interregional trips between adjoining MPOs often do not correspond
 - **Interregional Blueprint Action:** Complete STDM and a Web Interface Tool for the STDM allowing MPOs to work with each other and Caltrans to find the best solutions to different approaches



Moving Into a New Transportation Era

Accessibility and Land Use

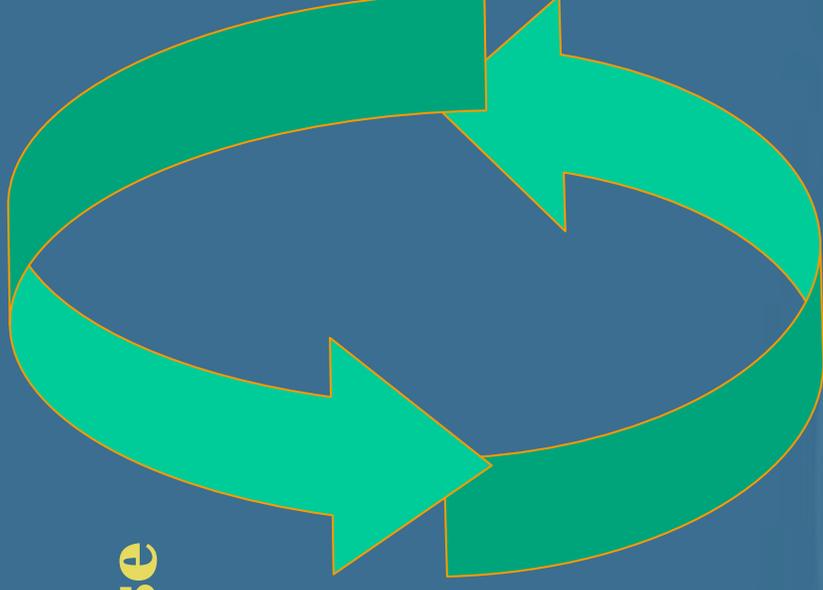
Accessibility Assessed

Demand Generated

Development Created

Activity Created

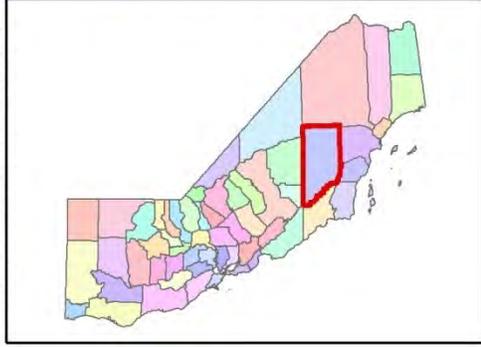
Changes Accessibility



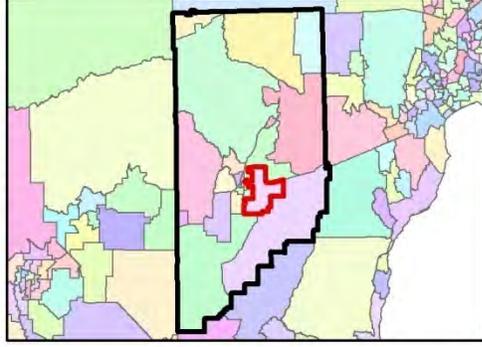
Moving Into a New Transportation Era

Geographic Scales in SIIM and the STDM

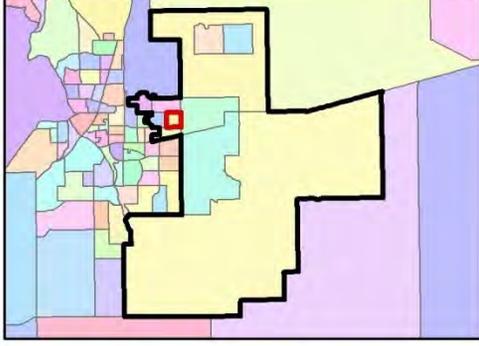
State and Counties



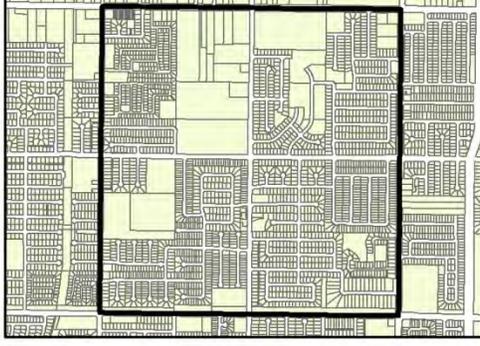
Regional



Land Use Zone
and Transportation
Analysis Zone

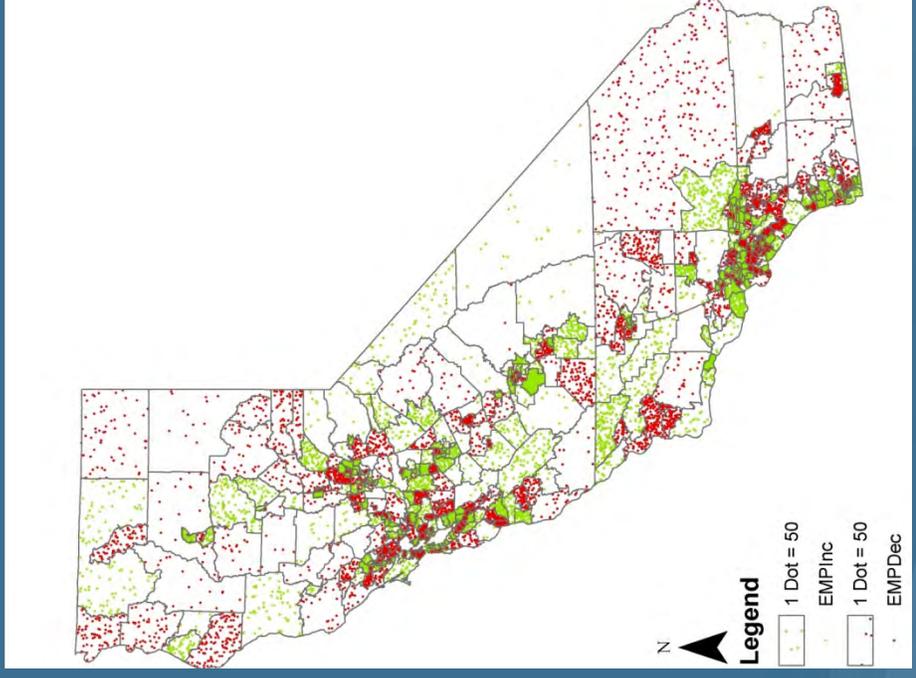
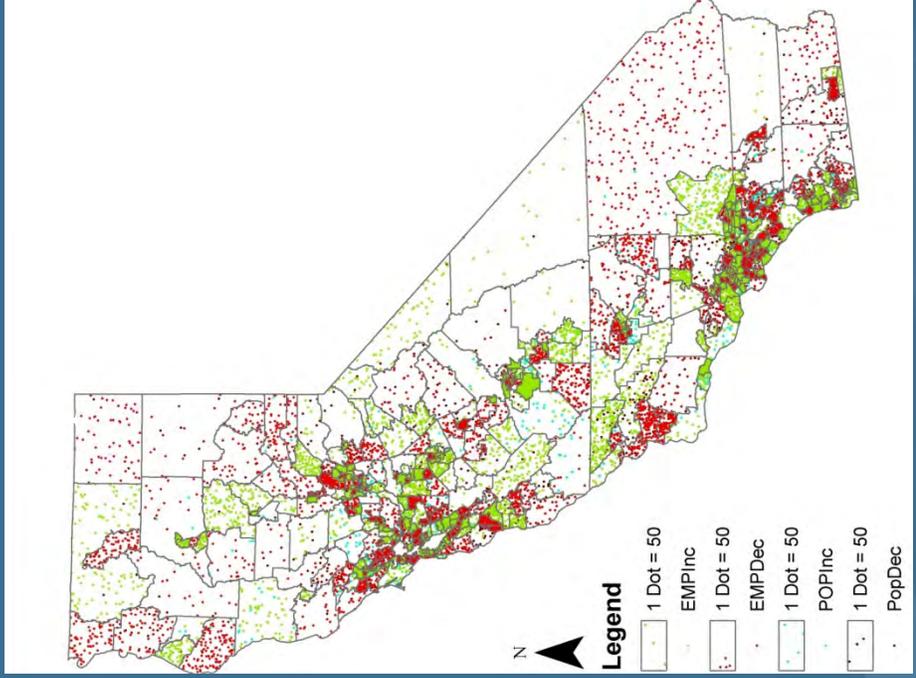


TAZ and Parcels





Moving Into a New Transportation Era



2010/2011 California Household Travel Survey

- Critical input to next generation of models
 - New statewide model
 - Regional models
- Focal Points
 - Interregional versus intraregional travel
 - Long versus short distance travel
 - Multimodal travel (auto, transit, non-motorized)
 - GPS tracking

2010/2011 California Household Travel Survey

- Full coordination between Caltrans & MPOs
 - Potential for fully combined surveys
- Surveys will support new models from large MPOs and traditional models from smaller MPOs
- Steering Committee currently meeting regularly
 - Jump start on survey design, sampling plans



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Questions and Comments



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Next Steps/Wrap Up

Martin Tuttle

Caltrans Deputy Director Planning & Modal Programs



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Marilee Mortenson, Regional Plg.

**Kimberly Johnston-Dodds, Native
American Liaison Branch**



What's Next – More Workshops

- Sacramento February 16, 2010
- San Diego March 1, 2010
- Los Angeles March 2, 2010
- Redding March 17, 2010
- Fresno March 22, 2010
- **Oakland*** April 6, 2010

*Workshops to go after this round



What's Next – After these Workshops

- Better tools and data -- and the funding source
- Phase I – Prepare report to BTH by September 2010
- Phase II -- More robust data and modeling tools by 2012
- Prepare an Interim Report due December 31, 2012
- Enhance scope of CTP 2040 by December 31, 2015



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For More Information

Check our CIB website at:

<http://www.californiainterregionalblueprint.org/>

For any questions contact:

pam_korte@dot.ca.gov



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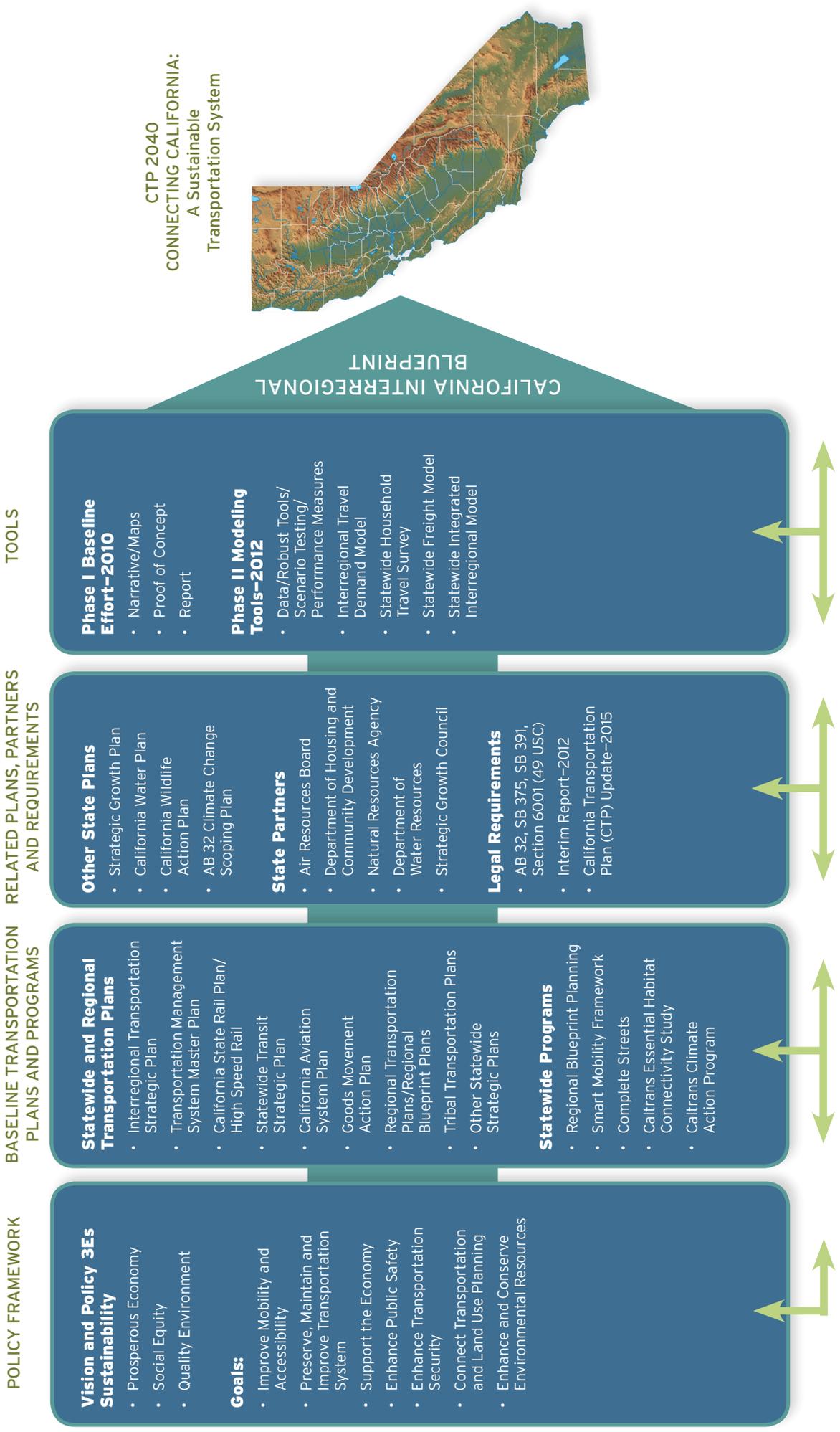
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Questions and Comments

other workshop handouts



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A New Plan for a New Transportation Era



california interregional blueprint & california transportation plan

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what? The Department of Transportation is expanding the State's transportation planning process to include the development of a state level transportation blueprint focused on interregional travel needs. The California Interregional Blueprint (CIB) will articulate the State's vision for an integrated, multimodal interregional transportation system that complements regional transportation plans and land use visions. The CIB when fully developed will become the foundation of the 2040 update to the State's long-range transportation plan, the California Transportation Plan (CTP).

why? The CIB will help evaluate how well our collective plans (both State and regional) will address future demand for interregional travel, while meeting our goals for a sustainable transportation system. It will strengthen and add relevance to the existing CTP policy plan and will expand the understanding of the interactions between land use and transportation investments, especially those related to greenhouse gas emissions. This understanding will position us to respond to new legislative requirements (SB 391) for the next CTP update that require the plan to define the statewide transportation system that meets our climate change goals under AB 32 and SB 375. The ultimate benefit of this effort will be stronger partnerships, with regional and local agencies and tribal governments, and better data for improved decision-making at the State, regional, and local level.

how? The CIB will integrate proposed interregional highway, transit, rail (including high-speed and intercity rail), intelligent transportation system, and goods movement and other transportation system and strategic plans into a common framework for analysis. The Department is currently compiling project data from our long range planning documents, as well as projects from Regional Transportation Plans (RTPs) developed by the State's Metropolitan Planning Organizations and Regional Transportation Planning Agencies, to define the future interregional transportation system.

Using regional growth and land use projections in regional blueprint plans and RTPs, the resulting system will then be analyzed to determine how well it will meet projected demand. As more advanced tools and data become available, the project concepts and strategies along with growth and land use projections will be modeled, and their impact on various outcomes, including greenhouse gas emissions, will be quantified.

when? The California Interregional Blueprint will be completed in two phases. The first phase to be completed in September 2010 will focus on integrating existing State modal plans and, in advance of statewide modeling tools, developing a narrative describing how these plans relate to regional transportation and land use plans. A final report incorporating all available data and analysis will be delivered in September 2010 to the Governor's Business, Transportation and Housing Agency.

The second phase to be completed in 2012 will enhance the initial analysis by employing more robust modeling and data programs, including an integrated transportation, land use and economic model. The Statewide Integrated Interregional Model (SIIM) will enable us to model and evaluate alternative scenarios for addressing interregional transportation needs and will measure performance across defined outcomes.

contact: Pam Korte, Project Manager, at (916) 653-2593 or Pam.Korte@dot.ca.gov. For more information see our web portal at www.californiainterregionalblueprint.org.

SB 391 Requirements

Legislative Intent

Section 14000.6

(a) The 2020 targets and requirements entail approximately a 25-percent reduction in greenhouse gas emissions from current levels.

(b) Executive Order S-03-05 identifies a greenhouse gas emissions limit of 80-percent below 1990 levels to be achieved by 2050.

(c) Emissions from the transportation sector account for 38 percent of California's greenhouse gas emissions.

(d) The state lacks a comprehensive, statewide, multimodal planning process that details the transportation system needed in the state to meet objectives of mobility and congestion management consistent with the state's greenhouse gas emission limits and air pollution standards.

(e) Current public transportation services and facilities are inadequate to meet current and expected future increases in demand.

Requirements

Section 65071 (NEW)

Require Caltrans to **update the California Transportation Plan (CTP) by December 31, 2015**, and every five years thereafter.

Section 65072 (EXISTING)

The California Transportation Plan shall include all of the following:

(a) A **policy element** that describes the **state's transportation policies and system performance objectives**. These policies and objectives shall be consistent with legislative intent described in Sections 14000, 14000.5, 14000.6, and 65088.

(b) A **strategies element** that shall incorporate the broad **system concepts and strategies synthesized from the adopted regional transportation plans** prepared pursuant to Section 65080. The California Transportation Plan shall not be project specific.

(c) A **recommendations element that includes economic forecasts and recommendations** to the Legislature and the Governor to achieve the plan's broad system concepts, strategies, and performance objectives.

Section 65072.1 (NEW)

65072.1. The California Transportation Plan shall consider all of the following subject areas for the movement of people and freight:

(a) **Mobility and accessibility;**

(b) **Integration and connectivity;**

(c) **Efficient system management and operation;**

(d) **Existing system preservation;**

(e) **Safety and security;**

(f) **Economic development, including productivity and efficiency;**

(g) **and Environmental protection and quality of life.**

SB 391 Requirements

Section 65072.2 (NEW)

Require the CTP to address how the state will achieve maximum feasible emissions reductions in order to attain a statewide reduction of greenhouse gas emissions to 1990 levels by 2020 and 80-percent below 1990 levels by 2050. Need to take into consideration:

- **the use of alternative fuels, new vehicle technology, tailpipe emissions reductions;**
- **and the expansion of public transit, commuter rail, intercity rail, bicycling, and walking.**

Require the CTP to identify the statewide integrated multimodal transportation system needed to achieve these results.

Require Caltrans, by **December 31, 2012, to submit an interim report** providing a **list and overview of sustainable communities strategies and alternative planning strategies** (prepared pursuant to SB 375), including an **assessment of how their implementation will influence the configuration of the statewide integrated multimodal transportation system**. Report to be submitted to the California Transportation Commission and Chairs of the:

- Senate Committee on Transportation and Housing;
- Senate Committee on Environmental Quality;
- Senate Committee on Local Government;
- Assembly Committee on Transportation;
- Assembly Committee on Natural Resources;
- and Assembly Committee on Local Government.

Section 65073 (AMENDED)

Caltrans shall **consult, coordinate with, and make drafts available for review and comment** to the:

- California Transportation Commission;
- Strategic Growth Council;
- State Air Resources Board;
- State Energy Resources Conservation and Development Commission;
- Air quality management districts;
- Public transit operators;
- and Regional transportation planning agencies.

Caltrans shall also provide an opportunity for **input by the general public**.

Prior to adopting the plan or update, Caltrans shall make a **final draft available to the Legislature and Governor** for review and comment.

The **CTC may present the results of its review and comment** to the Legislature and the Governor.

The Governor shall adopt the plan and submit the plan to the Legislature and the Secretary of the United States Department of Transportation.

Source: http://info.sen.ca.gov/pub/09-10/bill/sen/sb_0351-0400/sb_391_bill_20091011_chaptered.pdf.400/sb_391_bill_20091011_chaptered.pdf.

Senate Bill No. 391

CHAPTER 585

An act to amend Sections 65072 and 65073 of, and to add Sections 14000.6, 65071, 65072.1, and 65072.2 to, the Government Code, relating to transportation planning.

[Approved by Governor October 11, 2009. Filed with
Secretary of State October 11, 2009.]

LEGISLATIVE COUNSEL'S DIGEST

SB 391, Liu. California Transportation Plan.

Existing law requires various transportation planning activities by state and regional agencies, including preparation of sustainable communities strategies by metropolitan planning organizations. Existing law provides for the Department of Transportation to prepare the California Transportation Plan for submission to the Governor by December 1, 1993, as a long-range planning document that incorporates various elements and is consistent with specified expressions of legislative intent.

This bill would require the department to update the California Transportation Plan by December 31, 2015, and every 5 years thereafter. The bill would require the plan to address how the state will achieve maximum feasible emissions reductions in order to attain a statewide reduction of greenhouse gas emissions to 1990 levels by 2020 and 80% below 1990 levels by 2050. The bill would require the plan to identify the statewide integrated multimodal transportation system needed to achieve these results. The bill would require the department, by December 31, 2012, to submit to the California Transportation Commission and specified legislative committee chairs an interim report providing specified information regarding sustainable communities strategies and alternative planning strategies, including an assessment of how their implementation will influence the configuration of the statewide integrated multimodal transportation system. The bill would also specify certain subject areas to be considered in the plan for the movement of people and freight. The bill would require the department to consult with and coordinate its planning activities with specified entities and to provide an opportunity for public input. The bill would make additional legislative findings and declarations and require the plan to be consistent with that statement of legislative intent.

The people of the State of California do enact as follows:

SECTION 1. Section 14000.6 is added to the Government Code, to read:
14000.6. The Legislature further finds and declares all of the following:

(a) California has established statewide greenhouse gas emissions targets and requirements to be achieved by 2020 pursuant to the California Global Warming Solutions Act of 2006 (Division 25.5 (commencing with Section 38500) of the Health and Safety Code), which are equivalent to 1990 greenhouse gas emissions in the state. These targets and requirements entail approximately a 25-percent reduction in greenhouse gas emissions from current levels.

(b) Executive Order S-3-05 further identifies a greenhouse gas emissions limit of 80 percent below 1990 levels to be achieved by 2050.

(c) Emissions from the transportation sector account for 38 percent of California's greenhouse gas emissions.

(d) The state lacks a comprehensive, statewide, multimodal planning process that details the transportation system needed in the state to meet objectives of mobility and congestion management consistent with the state's greenhouse gas emission limits and air pollution standards.

(e) Recent increases in gasoline prices resulted in historic increases in ridership on public transportation, including transit, commuter rail, and intercity rail, and in historic reductions in vehicle miles traveled by private vehicles. Increased demand for public transportation included a 16-percent increase in light rail ridership in Sacramento, a 15.3-percent increase in rail transit ridership in Los Angeles, a 23-percent increase in bus ridership in Orange County, a 14.4-percent increase in transit ridership in San Diego, a 6.3-percent increase in rail transit ridership in Oakland, and a 22.5-percent increase in transit ridership in Stockton. Current public transportation services and facilities are inadequate to meet current and expected future increases in demand.

SEC. 2. Section 65071 is added to the Government Code, to read:

65071. The department shall update the California Transportation Plan consistent with this chapter. The first update shall be completed by December 31, 2015. The plan shall be updated every five years thereafter.

SEC. 3. Section 65072 of the Government Code is amended to read:

65072. The California Transportation Plan shall include all of the following:

(a) A policy element that describes the state's transportation policies and system performance objectives. These policies and objectives shall be consistent with legislative intent described in Sections 14000, 14000.5, 14000.6, and 65088.

(b) A strategies element that shall incorporate the broad system concepts and strategies synthesized from the adopted regional transportation plans prepared pursuant to Section 65080. The California Transportation Plan shall not be project specific.

(c) A recommendations element that includes economic forecasts and recommendations to the Legislature and the Governor to achieve the plan's broad system concepts, strategies, and performance objectives.

SEC. 4. Section 65072.1 is added to the Government Code, to read:

65072.1. The California Transportation Plan shall consider all of the following subject areas for the movement of people and freight:

- (a) Mobility and accessibility.
- (b) Integration and connectivity.
- (c) Efficient system management and operation.
- (d) Existing system preservation.
- (e) Safety and security.
- (f) Economic development, including productivity and efficiency.
- (g) Environmental protection and quality of life.

SEC. 5. Section 65072.2 is added to the Government Code, to read:

65072.2. In developing the California Transportation Plan pursuant to Sections 65072 and 65072.1, the department shall address how the state will achieve maximum feasible emissions reductions in order to attain a statewide reduction of greenhouse gas emissions to 1990 levels by 2020 as required by the California Global Warming Solutions Act of 2006 (Division 25.5 (commencing with Section 38500) of the Health and Safety Code), and 80 percent below 1990 levels by 2050, taking into consideration the use of alternative fuels, new vehicle technology, tailpipe emissions reductions, and expansion of public transit, commuter rail, intercity rail, bicycling, and walking. The plan shall identify the statewide integrated multimodal transportation system needed to achieve these results. The department shall complete an interim report by December 31, 2012, which shall include a list and provide an overview of all sustainable communities strategies and alternative planning strategies prepared pursuant to paragraph (2) of subdivision (b) of Section 65080, and shall assess how implementation of the sustainable communities strategies and alternative planning strategies will influence the configuration of the statewide integrated multimodal transportation system. The department shall submit the interim report to the California Transportation Commission and to the Chairs of the Senate Committee on Transportation and Housing, the Senate Committee on Environmental Quality, the Senate Committee on Local Government, the Assembly Committee on Transportation, the Assembly Committee on Natural Resources, and the Assembly Committee on Local Government.

SEC. 6. Section 65073 of the Government Code is amended to read:

65073. The department shall consult with, coordinate its activities with, and make a draft of its proposed plan, and each update, available to the California Transportation Commission, the Strategic Growth Council, the State Air Resources Board, the State Energy Resources Conservation and Development Commission, the air quality management districts, public transit operators, and the regional transportation planning agencies for review and comment. The department shall also provide an opportunity for input by the general public. Prior to adopting the plan or update, the department shall make a final draft available to the Legislature and Governor for review and comment. The commission may present the results of its review and comment to the Legislature and the Governor. The Governor shall adopt the plan and submit the plan to the Legislature and the Secretary of the United States Department of Transportation.

Modal Plans



summaries & maps

- State Highway System
- Passenger Rail
- Goods Movement
- Public Use & Military Airports
- Transit

California's Multi-Modal Transportation System

California's complex transportation infrastructure network supports a variety of travel modes, from highways and trains, to airplanes, buses, and bikes. Ownership and operating responsibility for the various parts of the transportation system falls to a variety of entities such as counties, cities, transit agencies, ports, private businesses, regional transportation planning agencies, tribal governments, and the state.

The state represented by Caltrans, citizens, has primary responsibility for the interregional mobility of people and goods. Much of that responsibility lies in operating and maintaining the state highway system to provide a dependable and reasonable level of service, accessibility into and through gateways and adequate connectivity to intermodal transfer points. Caltrans also supports California's interregional transportation system through funding passenger rail and transit services, regulating airports, and advocating for mass transit guideways. Most importantly, Caltrans maintains an ongoing cooperative relationship between other transportation stakeholders, particularly regional and local agencies, to mutually consult, cooperate, and seek consensus on transportation priorities and strategies.

The following narratives and accompanying maps provide an overview of California's existing and proposed interregional transportation system by mode – the State highway system, the passenger rail system, the goods movement network, the state's public use and military airports, and the transit system. The narratives describe each system, the trends and issues challenging that system and how the state proposes to address those challenges. Each narrative is followed by a map or maps illustrating the existing system for each mode and, where available, a map of the future system if Caltrans were to carry out all the planned transportation investments in its existing long-range plans.

Caltrans prepares long-range planning documents for each one of these modes that describes the vision, goals, and strategic investments for meeting California's future mobility needs. Caltrans' major long-range planning documents are the following:

State Highway System

- 1998 Interregional Transportation Strategic Plan
- 2009 Ten-Year SHOPP Plan
- Corridor System Management Plans
- 2009 California High Occupancy Vehicle (HOV)/Express Lane Business Plan

Passenger Rail

- California State Rail Plan

Goods Movement

- Goods Movement Action Plan

Aeronautics

- California Aviation System Plan

Transit

- Statewide Transit Strategic Plan (Concept Draft)

Caltrans has always maintained continuity between all of its long-range planning documents. However, the California Interregional Blueprint will integrate and align these state plans, along with Caltrans sponsored programs such as the Regional Blueprint Planning Program, Complete Streets, and the Smart Mobility Framework, more directly to provide a comprehensive picture of the state's multi-modal interregional transportation system.

California Interregional State Highways

Major Planning Considerations, Trends and Implications

Introduction

The California State Highway System (SHS) is comprised of over 15,400 miles (51,000 lane miles) of roadway and carries over 185 billion vehicle miles of travel (VMT) each year. The state highway system serves the State's heavily traveled rural and urban corridors, connects the communities and regions of the State and serves the State's economy by connecting centers of commerce, industry, agriculture, natural resource wealth, and recreation. The California Department of Transportation (Caltrans) has the statutory responsibility for operations, maintenance, design, construction and long-range planning of the SHS. Caltrans establishes standards and policies to maintain the system and administers the State Highway Operations and Protection Program (SHOPP) for rehabilitation and operational improvements of the system. Caltrans conducts long-range system planning in both rural and urbanized areas to identify future highway improvements and strategies, recommend prioritized improvements for funding into local and regional plans, and provide the sound technical basis for informed discussions and decision-making.

I. Major Interregional System Elements

The state highway system serves a diverse range of needs for the interregional movement of people and goods between rural and highly urbanized areas. While all state routes are important, the Interstate system, Interregional Road System (IRRS) routes, and other major freeway trade corridors form a strong transportation network that is most critical to interregional mobility and connectivity statewide. Together, these routes carry over 80 percent of the total annual SHS VMT. Strategies to optimize the use of the system's existing capacity through better system management, integration of new technology, completing the gaps on the high-occupancy vehicle (HOV) system and completing the key underdeveloped interregional routes would help achieve maximum return from our investment and meet the State's climate goals.

For Phase 1 development of the California Interregional Blueprint (CIB), Caltrans provides a progress status on each of the Focus Route included in the 1998 Interregional Transportation Strategic Plan (ITSP). The HOV System network is also included to emphasize the need to close gaps for system continuity. These system plans are the most readily available information for illustration purposes and provide a conceptual framework for the CIB. Ultimately, the plan is to identify future highway improvements and gaps on the IRRS (*Refer to Map – Interregional Road System*), with special emphasis on the non-urbanized areas. Priority improvements, specific to goods movement, are noted separately in the Goods Movement Action Plan section of the CIB.

Interstate System

The designated Interstate system is the backbone of the state's transportation network for interregional, interstate and international goods movement, access to airports, air cargo terminals, and other major gateways in the urbanized area. The Interstate system is the only "completed freeway system" in California in terms of continuous high facility standards. The Interstate system is less than 18 percent of all state highway miles, however, it carries over half of all VMT annually (over 80 billion VMT) and over half of all VMT in the urbanized and metropolitan areas. The State's large metropolitan centers in Southern California and the Bay Area in Northern California rely heavily on the Interstate system for interregional and regional

mobility. In rural and nonurbanized areas, the Interstate system primarily serves critical interregional goods movement needs and recreational travel.

Interregional Road System

The IRRS was first identified in statute in 1989 as part of the Blueprint Legislation. The IRRS is defined as a series of interregional state highway routes, outside the urbanized areas, that provides access to, and links between, the State's economic centers, major recreation areas, and urban and rural regions. This is simply a subset of the existing state highway routes and part of the Freeway and Expressway (F&E) System. The IRRS was conceived as part of the larger effort to address the critical transportation system funding and development needs of the State. Like most of new programs created by Legislation, the implementation is dependent on increases in state transportation revenues.

The passage of Blueprint Legislation (1989) and Senate Bill 45 (1997) made significant changes to the priorities and processes for programming and expenditure of state transportation funds. The funding formula for the State's interregional program is 25 percent and the regional share is 75 percent. The intent was for the State to be responsible for the interregional travel in the non-urbanized areas on the IRRS routes. Regional and local agencies are responsible for regional and sub-regional travel, and given the flexibility in identifying projects and system improvements to address congestion in their areas.

The term "High Emphasis Routes" was first coined in the 1990 IRRS Plan. This Plan was required in the Blueprint Legislation, but was deleted under SB 45. The High Emphasis Routes are characterized by Caltrans as the most critical IRRS routes identified in the 1990 Plan as the State's priority for programming and candidates to upgrade to freeway/expressway standards. Some Interstate routes are included as High Emphasis to highlight their critical importance to the interregional travel and the state as a whole; but they are not a priority for programming.

The term "Focus Route" is a phrase specific to the Caltrans' Interregional Transportation Strategic Plan (ITSP). The ITSP superseded the 1990 IRRS Plan and was developed in response to SB 45 to guide the investments in the State's Interregional Improvement Program (IIP). Focus Routes are a subset of the High Emphasis Routes and represent the ten IRRS corridors that should be the highest priority for upgrade to freeway and expressway standards in a 20-year period. When completed, the Focus Routes will connect all urban areas (including high-growth urbanizing areas), geographic goods movement gateways, and link rural and small urban areas to this trunk system. The Focus Routes can also be managed through a system management approach based on performance measures. (*Refer to ITSP Fact Sheet and Focus Route Development Strategy Map*).

Urban growth and development in California in the past 30 years has been directly along the Interstate System and Focus Routes (*Refer to Map – Designation Trend of Urbanized Areas on Transportation Paths*). Better management of the Interstate system and completion of the Focus Routes are central to both supporting interregional travel to and through urbanized areas and for rural mobility.

II. Major Statewide Initiatives/Plan

Importance of Corridor System Management Plans (CSMPs) for California's Mobility

Caltrans, in collaboration with regional and local partners, relies on the development of the CSMPs to manage corridor mobility and operations now and in the future. The CSMPs are based upon the concepts in Caltrans' Transportation Management System (TMS) Master Plan that was required by the California State Legislature in 2004. The TMS Master Plan is the foundation of the transportation component of the Governor's Strategic Growth Plan (SGP). This system management approach will restore productivity to the State's transportation system, improve corridor throughput, enhance travel time reliability across all corridor elements, and support economic growth.

The TMS Master Plan identifies three principal elements that will help restore productivity. These are: traffic control (such as ramp meters and improved signal timing on local arterials), incident management, and traveler information. These elements must be built on a strong foundation of detection in order to measure freeway performance. Aggressive deployment of these TMS elements could, on the freeway system alone, increase productivity by 20 percent, reduce projected congestion by 20 percent, and improve travel time reliability by 10 percent.

The CSMPs support and complement meeting the goals of the California Regional Blueprint efforts, compliance with Assembly Bill (AB) 32 and Senate Bill (SB) 375 to reduce greenhouse gas emissions, and the Smart Mobility Framework (*Refer to Smart Mobility Framework Fact Sheet*).

2009 High Occupancy Vehicle (HOV)/Express Lane Business Plan

An important element of efficiently operating California's highways is the State's HOV and express lanes - also known as high-occupancy tolling (HOT) or managed-lane system. The California HOV/Express Lane Business Plan guides the current and future development and operation of HOV and express lanes throughout the State. Caltrans Division of Traffic Operations takes the lead in implementing the business plan but it is developed in partnership with the regional transportation planning agencies, the California Highway Patrol and the Federal Highway Administration.

Currently, California has over 1,500 lane miles of HOV lanes, including three express lanes operating or under construction. Additionally, due to state and federal legislation and funding incentives, over 1,300 additional lane miles of HOV or express lanes are programmed or proposed, including a regional HOT lane network. (*Refer to Maps – HOV Lane System for Northern and Southern California*). By adjusting HOV lane operations (occupancy minimums and access design) and introducing tolling ("Express Lanes") the state and regional partners can actually manage congestion. The HOV/Express Lane Business Plan lays out a course of action during 2009-2011 for Caltrans and its partners to easily implement more flexible and effective system management strategies for HOV and Express lanes.

2009 Ten-Year SHOPP Plan

Caltrans' 2009 Ten-Year SHOPP identifies the needs to maintain and preserve the state highway system (2010 to 2020). The SHOPP Plan identifies specific performance measures and includes a cost estimate for the first five years of the plan. Capital improvements programmed in the SHOPP are limited to maintenance, safety improvements, and rehabilitation of the State highways and bridges, which do not add capacity to the system. Eligible SHOPP projects are grouped into eight categories: emergency response, collision reduction, mandates, bridge preservation, roadway preservation, mobility, roadside preservation and facilities.

The SHOPP is funded from the State Highway Account (SHA), receiving money through excise tax on gasoline and diesel fuel. Projected SHA funding available for the SHOPP is about \$1.5 billion per year, which represent about 24 percent of the estimated annual need. Since funding is insufficient to preserve and maintain the system, Caltrans will have to focus resources on the most critical categories of projects in the SHOPP. In the absence of new revenue sources, the condition of the transportation system will continue to deteriorate over the next ten years.

Caltrans has also identified 20 high-priority future SHOPP projects that involve a complex environmental, or project selection process, or require more than four years lead time for delivery of the construction contract documents. To achieve the goals identified in the Ten-Year SHOPP Plan, Caltrans will have to start the environmental review process prior to programming these projects. The intent is to propose these projects for programming at the earliest opportunity.

Sources:

Statewide Corridor System Management Plan

<http://www.corridormobility.org>

Transportation Management System Master Plan

<http://www.dot.ca.gov/hq/traffops/sysmgtp/rep/ports/MasterPlan.pdf>

California High Occupancy Vehicle/Express Lane Business Plan

http://www.dot.ca.gov/hq/traffops/systemops/hov/Express_Lane/

SHOPP Program

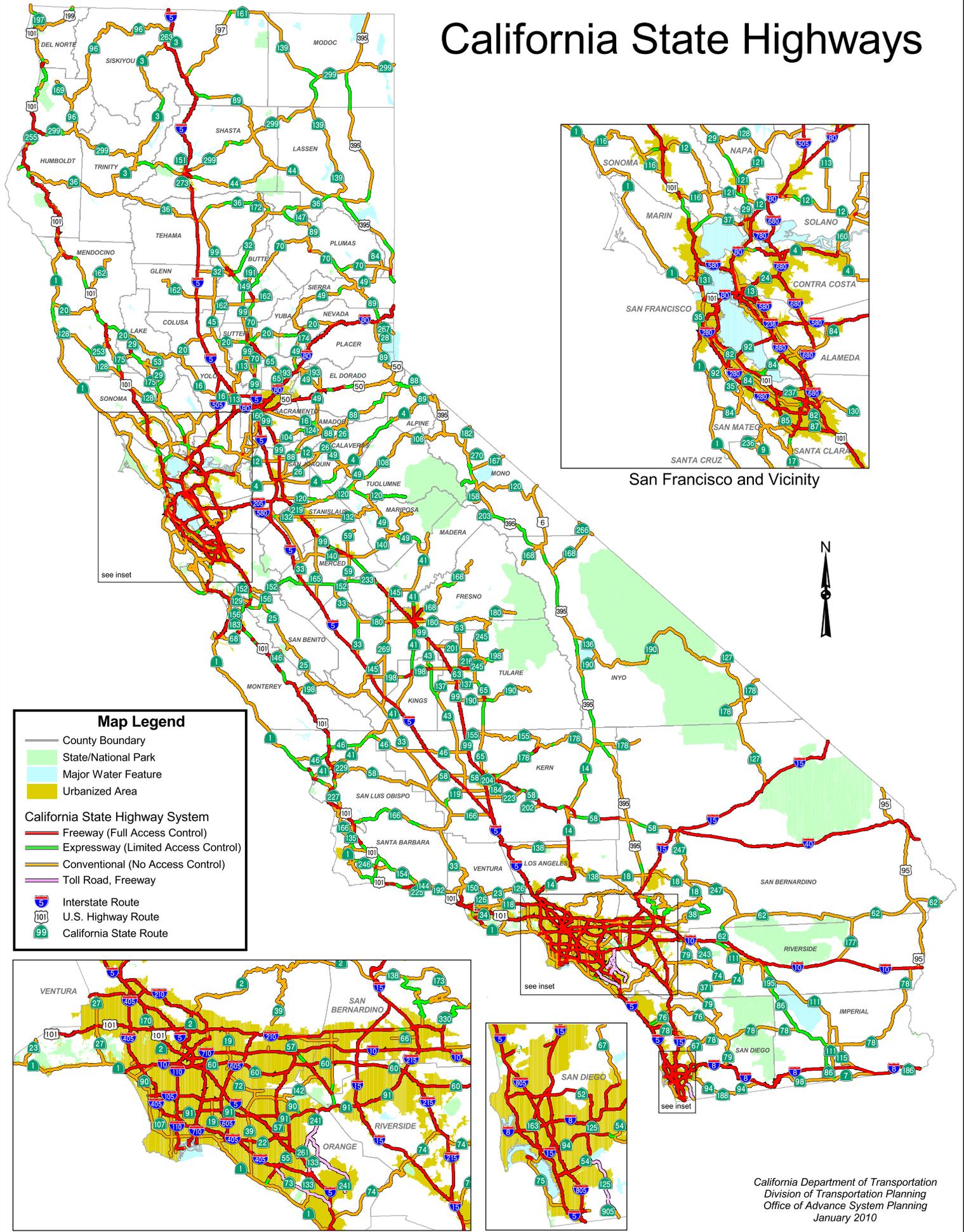
<http://www.dot.ca.gov/hq/transprog/shopp.htm>

Lilibeth Green, Senior Transportation Planner

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California State Highways



Map Legend

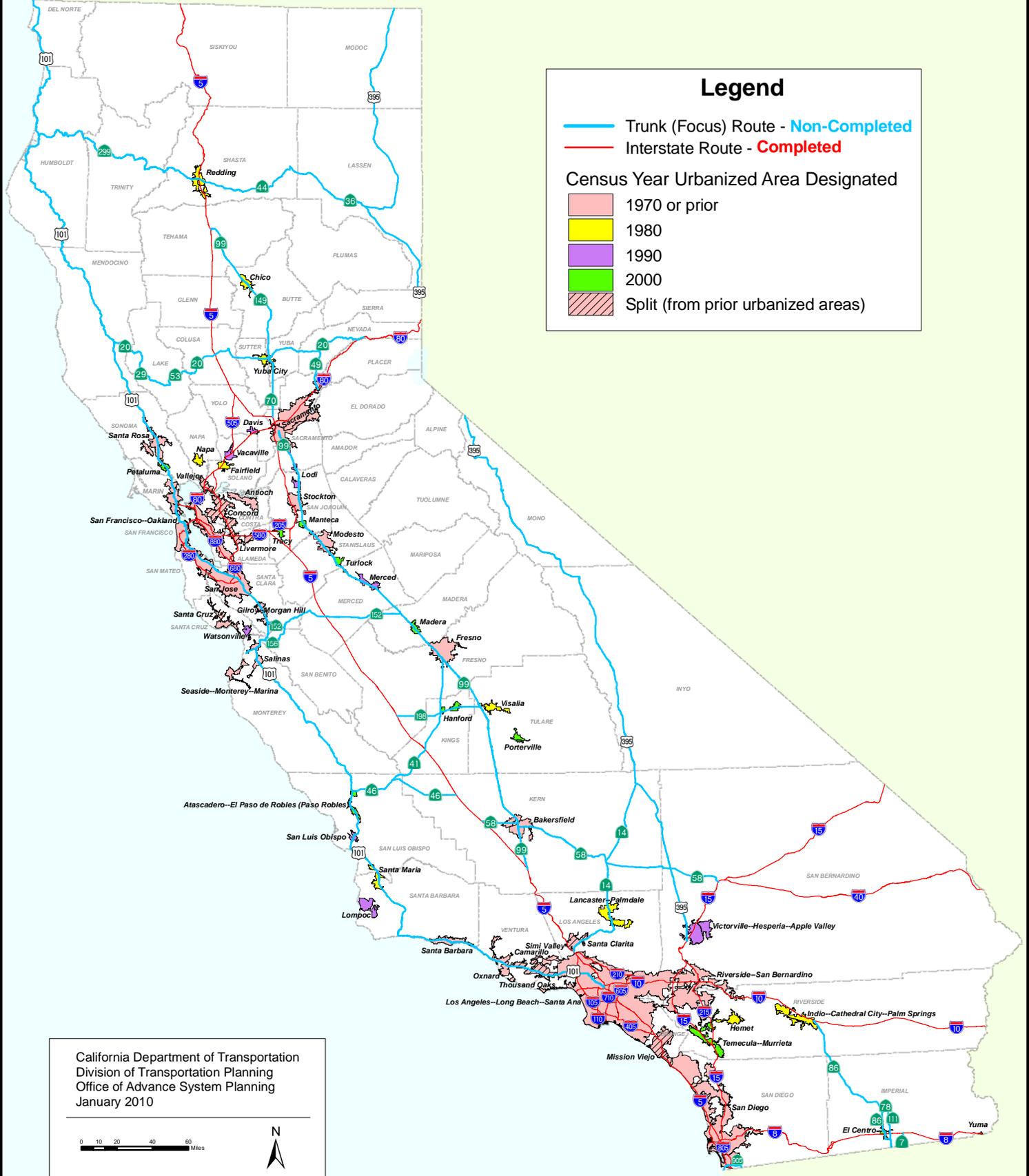
- County Boundary
 - State/National Park
 - Major Water Feature
 - Urbanized Area
- California State Highway System**
- Freeway (Full Access Control)
 - Expressway (Limited Access Control)
 - Conventional (No Access Control)
 - Toll Road, Freeway
- Interstate Route
 - U.S. Highway Route
 - California State Route

San Francisco and Vicinity

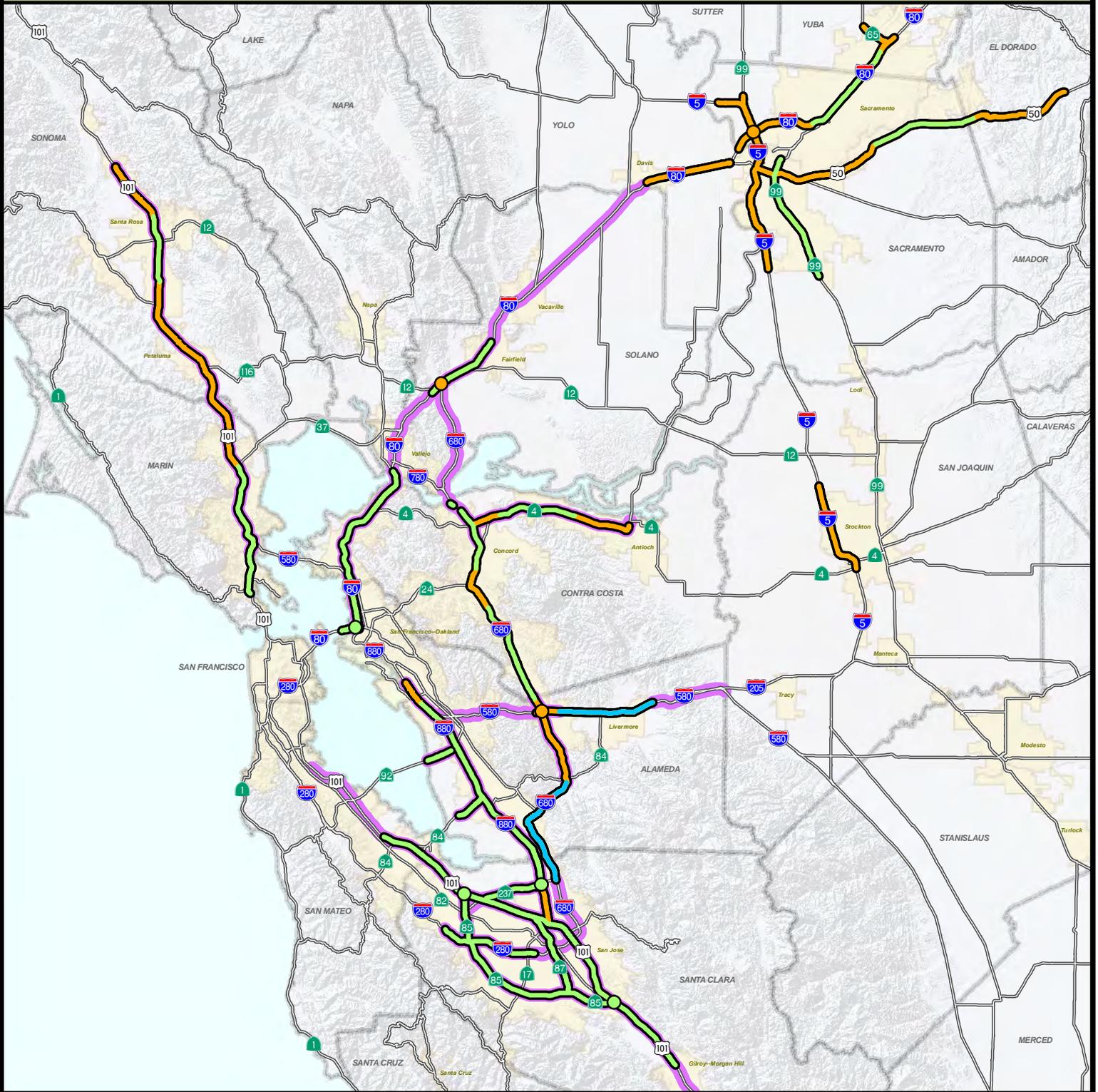
Los Angeles and Vicinity

San Diego

Designation Trends of Urbanized Areas on Transportation Paths



High-Occupancy Vehicle Lanes (HOV)/Express Lanes Northern California Region



HOV/Express Lanes Status

- Direct HOV/HOT Connector
- HOV - Existing and Under Construction
- HOV - Proposed
- Express Lanes - Existing and Under Construction
- Express Lanes - Proposed

Legend

- Urbanized Area
- County Boundary

California Department of Transportation
Divisions of Transportation Planning and Traffic Operations
January 2010



Interregional Transportation Strategic Plan (1998)

The State Transportation Improvement Program (STIP) Guidelines, adopted by the California Transportation Commission (CTC), require Caltrans to develop and keep updated an Interregional Transportation Strategic Plan (ITSP). The ITSP includes a vision, strategies, performance measures, principles and key objectives to guide the investment of the State's Interregional Improvement Program (IIP). These objectives are:

- Completing a trunk system of higher standards (usually expressway/freeway state highways);
- Connecting all urbanized areas, major metropolitan centers, and gateways to the freeway and expressway system to ensure a complete statewide system for the highest volume and most critical trip movements;
- Ensuring a dependable level of service for movement into and through major gateways of statewide significance and ensuring connectivity to key intermodal transfer facilities, seaports, air cargo terminals, and freight distribution facilities;
- Connecting urbanizing centers and high growth areas to the trunk system to ensure future connectivity, mobility, and access for the State's expanding population;
- Linking rural and smaller urban centers to the trunk system; and
- Implementing an intercity passenger rail program toward specified goals.

Overview of the Focus Route Corridors and Challenges

The term "Focus Route" is a phrase specific to the ITSP. The Focus Routes represent the 10 most critical interregional route corridors that are State's highest priority for IIP funding and upgrade to higher facility standards (usually expressway and freeway). Focus Routes are a subset of the High Emphasis Routes. It include all the non-Interstate routes in the High Emphasis category and 21 additional routes or route portions that constitute a major logical transportation corridor.

Completing the Focus Route corridors will provide a statewide trunk system for serving higher volume interregional trip movements. These corridors together with the Interstate system form a backbone system for additional capacity and a complete transportation facility for the State.

The main difference in highway facility type is access control.

Freeway - a divided arterial highway for through traffic with full control of access and with grade separations.

Expressway - an arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

Conventional highway means access from adjoining property is not restricted; Where it is restricted, it is either an "expressway" (intersections are not grade-separated) or "freeway" (intersections are grade separated with interchange structures)

The Focus Route corridors balance north-south and east-west access and connectivity statewide. North-south route corridors include US 101, State Route (SR) 99, US 395/SR 14, portions of SR 7, SR 111, SR 78, SR 86 and all of SR 905. These route corridors are vital interregional routes extending almost the length of California from Oregon to Mexico. They serve diverse travel demands from a major commute corridor through the urbanized areas, to prime rural recreation and tourist routes along with significant goods movement route for truck travel.

The east-west focus route corridors include SR 58, SR 41/46, SR 152/156, SR 198, SR 20 combined corridor with SR 29/53 and SR 49, and SR 299/44/36. The four east-west routes (and route portions) below Sacramento to Bakersfield (SR 152/156, 198, 41/46 and 58) serve the highest degree of interregional people and goods movement, connectivity, and accessibility. They provide operational flexibility for emergencies across multiple counties from central coast to the valley. SR 20 and SR 299 corridors (and route portions) serve interregional movement of people and goods across the northern Sacramento Valley and provide routing alternatives for emergencies in the north State.

California currently has 55 urbanized areas. Thirty-three out of 55 urbanized areas with a combined population of nearly five million people are currently not served by a State highway completed to freeway and/or expressway standards. Twenty-four of the 33 urbanized areas are directly on the Focus Route corridors and eleven are within a short distance to either a Focus Route corridor or an Interstate system. SR 99 alone has 13 urbanized areas underserved by the lack of a completed freeway. The Focus Routes combined represent less than 20 percent of the State highway miles. However, they carry over 32 billion vehicle miles of travel (VMT) annually and the second largest daily VMT for 5-axle trucks (25%), next to the Interstates (58%). Eighty three percent (83%) of all large truck travel is handled by these two systems. As population and economic growth continues in California, the need for higher facility standards becomes more pressing.

Plan to Meet the Challenge

The route development concept strategy for the Focus Routes corridors includes upgrading over 2,200 lane miles of conventional highways to freeway/expressway standards and constructing over 170 lane miles of new passing and truck climbing lanes over the 20-year period (1998-2020). Since 1998, nearly 600 lane miles (or about 25 percent) have been constructed, including those that are currently under construction. These major system improvements added new capacity and improved the operation of the Focus Route corridors.

A statewide map (Refer to Focus Route Development Strategy Map) demonstrates the progress of completing the Focus Routes including the remaining gaps on the system. The current 2008 State Transportation Improvement Program (STIP) programmed over \$4.5 billion of combined state, regional, local, Proposition 1B and Transportation Congestion Relief Program funds for continued improvement on the Focus Routes. This significant investment will add over 320 lane miles of freeway/expressway and about 20 lane miles of passing and truck climbing lanes to the interregional system.

However, given the current economic downturn and funding shortfalls, funding and construction of these programmed improvements could be further delayed or un-programmed in future STIPs. The parallel issue of increasing demand for maintenance and rehabilitation of the aging state highway system would also decrease the available STIP to fund current and future planned improvements on the Focus Routes. A challenge for funding the completion of the Focus Routes is to ensure full regional partnerships with regional improvement program dollars, considering the available county minimums.

Sources:

1998 Interregional Transportation Strategic Plan

<http://www.dot.ca.gov/hq/transprog/ocip/te/itsp.pdf>

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Focus Route Development Strategy 1998 - 2020 (non-urbanized areas)

Implementation Progress Report of the
1998 Interregional Transportation Strategic Plan (ITSP)

Legend

Funding Status (1998 - 2008 STIP)

- Constructed/Under Construction (Funded)
- Future Completion (Programmed/Planned)
- Focus Route
- Interstate Route
- Urbanized Area



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Division of Transportation Planning
Office of Advance System Planning
January 2010

0 10 20 40 60 80 Miles

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Passenger Rail

Currently, California's passenger rail system combines intercity, commuter, and urban rail. In the future, high speed rail plans to join these existing rail types to enhance the State's passenger rail system. While Caltrans assumes different roles in the operation of the many passenger rail lines in California, the State strives to make the passenger rail system as "seamless" as possible with excellent connectivity to other transportation systems. Designing for connectivity enters into virtually every aspect of operations, marketing and capital planning. The California State Rail Plan describes the overall vision for the State's intercity and commuter rail systems which (along with freight rail) share the same infrastructure, generally owned by private railroads. Urban rail services (such as the Los Angeles County Metro Rail and BART) operate on separate tracks and are locally controlled and funded, so they are not covered in the State Rail Plan. However, to further the implementation of a safe, integrated, multi-modal transportation system, it is essential that the intercity and commuter rail systems be well integrated with the urban transit rail and bus systems.

Existing Intercity Rail Service

Intercity passenger rail service is a component of the State's overall transportation system and operates between several regions of the state. In California, Amtrak operates all State-supported intercity rail service. Caltrans provides operating funding for the three Amtrak California routes, the Pacific Surfliners (San Diego to San Luis Obispo), the San Joaquins (Bay Area/Sacramento to Bakersfield), and the Capitol Corridor (San Jose to Auburn). In addition, as part of its national intercity rail system, Amtrak funds and operates four long distance train routes that link California to other states. These routes include the Coast Starlight (Los Angeles to Seattle), California Zephyr (Emeryville to Chicago), Southwest Chief (Los Angeles to Chicago), and the Sunset Limited (Los Angeles to New Orleans). The State-supported routes connect with each other and with Amtrak's national intercity passenger rail network. Many passengers use State-supported routes as part of a longer rail trip. Coordination of schedules generates additional ridership and can improve overall efficiency. See map for routes.

Existing Commuter Rail Services

Commuter rail operates primarily within a single region of the State, serving regional and local transportation needs. Because commuter rail serves local and regional transportation needs, these services are planned and administered by local and regional transportation agencies. Various sources of funding are available at the local, state, and federal levels. Some capital funding is provided by the state through the State Transportation Improvement Program, and other sources, but operating funding is provided by the local and regional agencies. California's existing commuter routes are Coaster (San Diego to Oceanside), Metrolink (Los Angeles, Orange, Riverside, San Bernardino, and Ventura counties), Caltrain (San Francisco-Gilroy) and Altamont Commuter Express (ACE) (Stockton to San Jose). See map for routes.

Existing Streets and Highways

Caltrans works to ensure that the trains are well connected to streets and highways through proper design of stations and signage, including pathfinder signs on local streets and roads and State highways that guide passengers to Amtrak stations.

Trends and Challenges

Caltrans' vision for California's intercity rail system includes three key elements:

Provide a rail transportation alternative to other travel modes; provide relief to highway and air transportation congestion; and improve air quality, conserve fuel, and contribute to efficient and environmentally superior land use.

The box at the right describes specific goals for the State's intercity passenger rail system vision.

One key challenge for State-supported intercity rail is adequate and predictable funding for capital projects needed to maintain and expand the system.

The only ongoing capital funding source is a limited portion of the State Transportation Improvement Plan (STIP) funds. The State's ten-year \$4.03 billion capital program through fiscal year 2017-18 for the three existing State-supported intercity routes (Pacific Surfliners, San Joaquins, and Capitol Corridor) and for new routes/extensions represents a program based on program needs, and not on funding expectations. Full implementation of this capital program will require major Federal funding. The State applied for Federal stimulus funds being made available in 2009-10 and received about \$100 million in funding. Future grant cycles are anticipated.

Intercity Passenger Rail Goals

- Expand capacity on existing routes
- Reduce train running times
- Improve equipment, stations, and facilities
- Enhance multi-modal connectivity
- Increase fare box ratio
- Improve safety
- Implement new cost effective routes

Proposed Intercity and Commuter System Description

As part of its 10-year intercity rail plan, the State proposes to increase service frequencies on all three existing intercity routes (Pacific Surfliners, San Joaquins, and Capitol Corridor), and to add three new extensions of existing State-supported service:

- 1) Expand service from San Francisco to San Luis Obispo and Los Angeles as part of the Pacific Surfliners
- 2) Expand service from Sacramento to Redding
- 3) Expand service from Sacramento to Reno
- 4) Initiate service from Los Angeles to Indio (Coachella Valley).

The four commuter rail agencies (Coaster, Metrolink, Caltrain, and ACE) also have plans for expansion of service. In addition, there are three planning initiatives for commuter rail. The Southern California Association of Governments (SCAG) has initiated a study of commuter rail service for Ventura and Santa Barbara counties. Sonoma Marin-Area

Rail Transit District proposes service between Cloverdale and the Larkspur Ferry Terminal. Six agencies have partnered to develop a service plan for a new regional commuter rail service in the Auburn and Oakland urban corridor, which would be integrated with the Capitol Corridor. See map for proposed routes.

Proposed High-Speed Rail Service Description

In 2008, the State Legislature approved and Governor Arnold Schwarzenegger signed AB 3034 (Galgiani), placing a \$9.95 billion bond measure for high speed rail on the November 2008 ballot. Proposition 1A asked California voters to approve a down payment on construction of the high-speed train line, led by the California High Speed Rail Authority (Authority). The bond measure passed and the Authority is currently working on obtaining environmental clearance on project sections.

As reported by the Authority, the major sections of the proposed high speed train system include: Los Angeles to Orange County, Los Angeles to Bakersfield, Bakersfield to Fresno, Fresno to Merced, Merced to San Jose, and San Jose to San Francisco. Subsequent sections of the system would extend north to Sacramento and south to San Diego. See map for proposed routes. The system will be built, whenever possible, along or adjacent to existing rail transportation facilities instead of creating new transportation corridors. In addition, in most major cities, the high-speed train station will be developed in conjunction with existing rail transportation hubs to produce the most efficient linkages to local and regional transit systems. The Authority is working on a timeline that would see a complete high-speed train system in place by 2030; subsequent sections would be constructed after that time.

Proposition 1A will provide \$9 billion in state general obligation bonds that require other federal, state, local, and private financing to be secured before construction can proceed. Another \$950 million included in the bond measure will be used to finance capital improvements to commuter, intercity rail, and transit lines in order to connect existing infrastructure to the high-speed rail system. In February 2010, the Authority received \$2.25 billion in Federal stimulus funds.

The Authority and regional partners are proposing to develop a dedicated regional rail corridor through the Altamont Pass and the Tri Valley area capable of supporting intercity and commuter rail passenger services. This project is a separate corridor project from the statewide high-speed train system. Project-level environmental review is currently underway.

Other Proposed High Speed Rail System Descriptions

The DesertXpress is a proposed new high-speed, steel wheel on rail double track interstate passenger rail line. This new line, being proposed by a private consortium, would run 190 miles between Victorville, California and Las Vegas, Nevada. It would run primarily at grade but would be completely grade-separated from all streets and

highways. The federal environmental impact statement (EIS) process is currently underway for this route.

Two high speed rail Maglev projects (Southern California Maglev Project and the Las Vegas–Anaheim Maglev Project) are also being proposed. Maglev technology uses magnetic forces to lift, propel, and guide a vehicle over a guideway. These two projects have significant hurdles to overcome. Their sponsors will need to complete engineering work and environmental documentation to further the initial concept design plans and a principal funding source remains to be identified.

Source: California Rail Plan 2007-08 to 2017-18

<http://www.dot.ca.gov/rail/go/dor/california-state-rail-plan/index.cfm>

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Source: California High-Speed Train Business Plan

<http://www.cahighspeedrail.ca.gov/library.asp?p=8200>

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California Intercity and Commuter Rail Network

(including connecting bus service)

Current System as of February 2010



LEGEND

Intercity Services

- Capitol Corridor®
- San Joaquin®
- Pacific Surfliner®
- Amtrak Thruway Motorcoach Services (most intermediate stops not shown)
- Amtrak Interstate Rail Routes

Commuter Services

- Caltrain
- ACE
- Metrolink
- Coaster
- BART

Other Symbols

- City w/ Rail Station or Bus Stop
- Major Rail Transfer or Rail Terminal City

California Department of Transportation
Division of Rail - acm.v3
February 2010

0 25 50 75 100 mi
0 25 50 75 100 km

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California Intercity and Commuter Rail Network Proposed Intercity, Commuter and High Speed Rail Services

Proposed Frequency Increases on Existing Intercity Corridors

Corridor	2010	2018
Pacific Surfliners		
San Diego-Los Angeles	11	13
Los Angeles-Goleta	5	6
Goleta-San Luis Obispo	2	3
San Joaquins		
Oakland-Bakersfield	4	5
Sacramento-Bakersfield	2	3
Oakland-Stockton	2	2
Capitol Corridor		
San Jose-Oakland	4	16
Oakland-Sacramento	12	18
Sacramento-Roseville	1	10
Roseville-Auburn	1	4

LEGEND of PROPOSED RAIL SERVICES

Intercity Rail Services

- (A) Sacramento – Redding
- (B) Auburn – Reno
- (C) San Luis Obispo – San Francisco
- (D) Los Angeles -Indio

Commuter Rail Services

- (E) Auburn – Oakland Commuter
- (F) Sonoma Co. – Marin Co. (SMART)
- (G) ACE Proposed Extensions (4 lines)
- (H) Dumbarton Rail Corridor
- (I) Catrain Salinas Extension
- (J) Santa Barbara – Ventura Co. Commuter
- (K) Metrolink Santa Paula Branch
- (L) Metrolink Perris Extension

High Speed Rail

- ① CA High-Speed Rail – Phase 1
- ② CA High-Speed Rail – Phase 2 (3 lines)
- ③ Altamont Corridor Project
- ④ Desert Express – Phase 1
- ⑤ Desert Express – Phase 2

CURRENT SERVICE LEGEND

Intercity Services

- Capitol Corridor®
- San Joaquin®
- Pacific Surfliner®
- Amtrak Thruway Motorcoach Services (most intermediate stops not shown)
- Amtrak Interstate Rail Routes

Commuter Services

- Caltrain
- ACE
- Metrolink
- Coaster
- BART

Other Symbols

- City w/ Rail Station or Bus Stop
- Major Rail Transfer or Rail Terminal City

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February 2010



Goods Movement

California's goods movement network of highways, rail lines, seaports, airports, and border crossings is an essential part of the State's interregional transportation system. California's goods movement strategy is laid out in the Goods Movement Action Plan (GMAP), developed between 2005 and 2007. The GMAP outlines a multimodal/interregional approach to address the economic and environmental issues associated with moving goods via the state's highways, railways and ports. The GMAP recognized the need to expand system capacity in tandem with significant reductions to the environmental and community health impacts associated with freight transportation.

Although the recent economic picture has substantially reduced overall trade volumes, economists expect recovery will occur over the next few years. For this reason, California must continue its strategic approach to freight transportation during a period of relative inactivity.

The following 'snapshot' provides a context for understanding the importance of the system to the State's economy and citizens, as well as its importance to the nation as a whole, and the continued need to plan and deliver appropriate infrastructure. It is clear from this snapshot that a standardized approach to planning for California's current and future goods movement transportation system will not only be inadequate but will actually be counterproductive. Thus, our planning efforts will continue to identify innovative partnerships, initiatives and funding opportunities.

2007 California Good Movement Facts

- California's Gross Domestic Product (GDP) was \$1.7 trillion, which put California as the tenth largest economy in the world and represented 13 percent of the U.S. GDP. Considered as an independent nation, California would rank between Canada and Italy.
- 12 percent of the nation's population lived in California; international trade represented 25 percent of the State's economy.
- Hispanic buying power was estimated to be \$228 billion annually and California's Asian consumer market is estimated at \$150 billion annually.
- Exports accounted for 12 percent of total U. S. exports. California's top trading partners are Mexico, Canada, Japan, China and South Korea.
- Total trade equaled \$516 billion in exports and imports flowed through the state by air, land and sea. From 2006 to 2007, exports increased \$7 billion, to \$134 billion.
- Airborne agricultural exports totaled \$685 million (Los Angeles Basin and San Francisco Bay Area airports handled 93 percent of total California air cargo).
- California's goods movement infrastructure is important to the nation's economy in terms of both exports and imports. In 2006 over 8 percent of all goods moving into and out of America use California's highways, railroads, ports and airports and 45 percent of the nation's container volume surge through California's ports, highways and railways. This is a significant impact to the State's transportation and community infrastructure.

The GMAP was a significant policy initiative that supports subsequent actions, including the freight elements of Proposition 1B, and continues to guide freight-related decision-making. It also guides our input to the Surface Transportation Act currently being debated in Congress. The GMAP was specifically designed to be a living document with regular updates beginning with a major update in 2011. The 2005 priority project list will be revisited and revised in line with current conditions. The air cargo section and agriculture sections will be significantly expanded. Also to be expanded is goods movement infrastructure needs associated with tribal governmental economic development projects.

The State continues to invest in projects that will provide a safer, more effective transportation system for moving goods to and through California. Delivering the Trade Corridors Improvement Fund (“TCIF”) projects (nearly \$3 billion), and the Caltrans sponsorship of \$143.8 million in key freight rail projects from the federal government’s Transportation Investments Generating Economic Recovery -- “TIGER”--discretionary grant program are key components of this commitment. As the economy recovers, other efforts will be needed to meet the challenges that arise.

Caltrans is committed to improving the movement of goods in all areas of our transportation system and to reducing associated health impacts in our communities. Thus—beyond the State actions and initiatives described above--we’re also working with Congress as it develops the new Surface Transportation Act to increase our share of federal funding for projects at our borders, seaports and throughout our vital system of highways. We are also forging new and innovative partnerships with non-traditional industry sectors, such as the Class I railroads operating in California.

The attached map shows the primary goods movement corridors in California:

Freight Rail System Overview

California is a key state in the national freight rail system. In 2005, California railroads operated over 7,355 miles of track and carried over seven million carloads of freight. Railroad service plays a critical role to California, to the United States and the global economy. Burlington Northern Santa Fe (BNSF) and Union Pacific (UP) serve the import and export markets for a large number of Pacific Rim countries. Approximately 45 percent of intermodal traffic entering or leaving the U.S. passes through California ports.

Rail capacity and constraints

Rail capacity has become more constrained due to the increasing volumes of cargo imported and exported into and out of the State through our major seaports and trade gateways. This increased trade is due to rapidly increasing population in California, other states and foreign countries that are served by the State’s rail infrastructure and goods movement industry.

Operational Conflicts: Passenger/Freight; Freight/Freight

In most areas of the State, rail passenger share rail rights-of-way (ROW) with freight railroads. In this case, the main issue is the capacity of the route to accommodate both rail passenger and freight rail. Statewide, shared use of ROW includes:

- Pacific Surfliner, San Joaquin, and Capitol Corridor;
- Southern California Metrolink commuter rail system;
- San Diego County Coaster commuter rail system;
- Caltrain commuter rail system in the San Francisco Bay Area;
- Altamont Commuter Express rail system.

Rail passenger operators have plans for adding more trains over the next several years. In some cases, rail capacity is insufficient to handle existing levels of both passenger and freight service, particular in the urban areas with substantial passenger and rail traffic.

Rail System Preservation

BNSF and UP have some 5,488 miles of track in the State. To improve productivity, profitability and maximize capacity, railroads have made many improvements. However, the high cost of these improvements has been limited to upgrading only the highest volume and most profitable lines, and leaving other lines downgraded or abandoned.

Many states believe freight service is vital to their economies and have made freight rail service, especially the preservation and retention of lower density branch lines, a significant part of their economic development and transportation programs. Therefore, it is critical to keep an inventory of inactive, underutilized, and abandoned rail segments and rail corridors for possible increased and or future use. Often times, when rail is removed for other purposes, the rail service is lost forever.

Source: Goods Movement Action Plan

http://www.dot.ca.gov/hq/tpp/offices/ogm/links_files/gmap-1-11-07.pdf

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Source: California Rail Plan

<http://www.dot.ca.gov/rail.go/dor/california-state-rail-plan/index.cfm>

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Priority Regions and Corridors in California



Legend

- Port of Entry
- ✈ Major Airports
- ⚓ Major Seaports
- ++++ Major International Trade Railroad Routes
- Major International Trade Highway Routes
- Priority Regions and Project Focus Areas

California Department of Transportation
 Division of Transportation Planning
 Office of Goods Movement
 January 2010

0 10 20 40 60 80 Miles

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Public Use and Military Airports

California's 250 public use airports consist of a combination of privately owned airports, and airports that are owned by local governments, or airport districts. Ownership and operation of an airport is sometimes a combined public-private effort between a city or county, and a contract airport management company. Regardless of who owns or operates the airports in California, they are all part of a global aviation network. There are three types of airports: commercial, military, and general aviation (GA). GA airports can be for public use, or private use. As their name implies, public use airports are open to the general public and anyone can use them, while private use airports can only be used by their owner or invited guests. In addition to the public use airports, the federal government owns and operates numerous military airfields throughout state. Civilian aircraft must have special permission to use these military airfields.

Trends and Issues

Capacity Constraints

Capacity at commercial service airports is defined as the maximum volume of all arriving and departing aircraft. An airport can only handle a specific number of operations without saturation (the equivalent to gridlock), and is limited by runways, taxiways, and terminals. In 2003 and 2007, the Federal Aviation Administration (FAA) completed two major national airport capacity assessments, publishing their findings in the Future Airport Capacity Task (FACT) 1 and 2 reports. The reports focused on the fastest growing metropolitan areas in the country. They identified five California airports as being among the most capacity constrained airports in the nation. These airports are: John Wayne Airport (Orange County), Oakland International and San Francisco International Airports (San Francisco Bay Area), Long Beach Airport (Los Angeles County) and San Diego International (San Diego County). San Diego International is so constrained that the only way future demand can be met is through the construction of a new airport.

Although FACT 1 and 2 focused primarily on the nation's commercial airports, it acknowledged that GA airports would have an important part in meeting future system wide capacity needs. GA airports provide back-up capacity for both commercial and non-commercial aviation demand. Preservation of airports through better interagency planning, and secure funding would insure that California's future air travel demands are met. Unfortunately, GA airports are often overlooked in transportation planning at all levels of government in California.

Complex Regulatory Framework

Airports are governed by a complex regulatory framework. They must comply with federal, state, and local aviation regulations. They must also work with numerous non-aviation agencies that have permitting or funding authority, including federal and state environmental protection and resource agencies, the Army Corps of Engineers, regional transportation planning agencies, and local governments. The State's role in regulating airports through the Caltrans Division of Aeronautics (Division) includes permitting airports and heliports, and conducting periodic safety

inspections to ensure compliance with design standards stipulated in the California Code of Regulations. The Division also provides land use guidance through planning documents such as the Airport Land Use Compatibility Handbook and the California Aviation System Plan (CASP), manages the State's Airport Noise Program, and administers airport funding through its loan and grants programs. Local government agencies are responsible for land use around airports. They include airports in their General Plan policy document and use implementing tools such as Specific Plans and zoning ordinances. Airport Land Use Commissions (ALUC) develop recommended land use strategies for property around each airport, and write Airport Land Use Compatibility Plans (ALUCP) for the airports in their county. Regional and Metropolitan Transportation Planning Agencies include airport planning as part of their overall transportation planning and programming i.e. funding work. This overlapping jurisdictional responsibility sometimes results in contradictory regulations, investments and plans.

Aviation Funding

Unlike other modes of transportation, airports are not funded through the State Highway Account and State Transportation Improvement Program process. The bulk of funding for GA airports comes either directly from the FAA or indirectly through the State's Aeronautics Account to the eligible public use airport owners. The types of funds available to an airport depend on the federal and state grant programs criteria.

Recent State budget balancing efforts have resulted in significant reductions in the Aeronautics Account. Suspension of all Aeronautics grant programs for FY 2009/10 and transfer of \$4.0M from the Aeronautics Account has negatively impacted airports in several ways. Airports no longer have the State money to use as a match for the federal grant funds to improve their facilities. Thus, some airports are deferring routine maintenance which will result in higher future operation and maintenance costs. Airports are not eligible to receive Annual Credits in the amount of \$10K/year to address safety and operational expenses, and airports are not eligible to apply for Acquisition and Development grants for safety projects that may not have been funded by the FAA.

See State *Dollars for Your Airport* for additional details regarding airport funding at: <http://www.dot.ca.gov/hq/planning/aeronaut/document/StateDollarsForAirport2009.pdf>

Perceptions and Misperceptions about the Value of Airports

According to the June 2003 economic study *Aviation in California: Benefits to Our Economy and Way of Life*, aviation generates almost 10% of the State's GDP and employment base. Aviation offers an effective business tool for expediting delivery times of passengers and cargo. Corporate location decisions are sometimes based on proximity to an airport. GA airports in rural communities provide vital links to the rest of the State and world.

Unfortunately for all their benefits, the value and potential of California's airports are often under estimated. If the airport environs are preserved to allow for airport growth, airports can be a revenue generating asset that contributes to the long term economic well being of a community.

Local governments must weigh potential future revenues against immediate short term tax revenue gains from residential and commercial projects.

Adjacent Airport Land Uses

The single most challenging issue facing California airports is encroachment from incompatible land uses. An incompatible land use means any land use or structure that interferes with the safe operation of the airport, or is inconsistent with the State mandated Airport Land Use Commission's compatibility plan pursuant to Public Utilities Code 21001 et seq. Competing land uses, misunderstanding of an airport's value to the community, and the cost of an airport's infrastructure work against the public's appreciation of their airport. Siting problems with wetlands, power plants, wind turbine facilities, expansion of existing land uses, and obstructions that penetrate navigable airspace around airports can also limit an airport's ability to operate safely, and constrain their economic viability and long term sustainability.

Future Growth Opportunities

- Growth in business aviation and goods movement
- Future demand for new commercial aircraft, and individual aircraft ownership of business aircraft (including fractional ownership)
- Modify the Division's CASP System Needs Assessment and Policy Elements to include gap analysis projects and priorities
- Add a recommendation for inclusion of an airport buffer zone, like a greenbelt, in local planning documents and policies in the 2010 Airport Land Use Handbook update
- Promote green technology at airports, such as San Francisco International and Fresno Yosemite Airports see link: <http://www.flysfo.com/web/page/about/green/index.html>
- Amend CEQA Guidelines to require distribution of NOPs to local ALUCs for all projects within 2 miles of any public use airport
- Raise visibility and importance of aviation planning within Caltrans through a director's policy or deputy directive
- Maintain Division function at Caltrans HQ, and create aeronautics liaisons in the districts
- Highlight jobs created by the aviation sector of the economy
- Address environmental justice issues around airports
- State Aeronautics Account needs dedicated reliable funding, and protection from "fund transfers" by the Department of Finance

Source: California Aviation System Plan

<http://www.dot.ca.gov/hq/planning/aeronaut/documents/CASP2006.pdf>

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CALIFORNIA DEPARTMENT OF TRANSPORTATION
DIVISION OF AERONAUTICS

Public Use Airports - 2008 And Military Airfields



LEGEND

- ◆ Commercial/Primary
- ▲ Metropolitan
- ⬠ Regional
- Community
- Limited Use
- ✈ Joint Use (Military/Commercial)
- ★ Military/NASA



Division of Mass Transportation

Mass Transportation in California

Transit agencies are owned and operated by private, private non-profit, or public transit entities. The California Department of Transportation (Caltrans) does not own or operate any of the existing transit systems in the state and has no authority over individual transit agencies and their services. Caltrans, however, plays an important role in supporting the transit system by administering state and federal funds, such as the Federal Transit Administration's Section 5311(f) Program which supports the connection of transit services between non-urbanized and the larger regions. Caltrans also supports the infrastructure of the transit network on its state highway system to support a safe, reliable, multi-modal transportation network.

The California Transit Trend

Transit ridership in California is at an all-time high with 1.2 billion passengers annually. Transit operators provided 40% more services in 2007 than in 1997 and during the same time transit operating costs rose by almost 45% according to the National Transit Database.¹ Light rail trips increased at a higher rate than bus trips in the last five years, with bus trips becoming shorter and rail trips getting longer. In addition, California transit services accounted for 16% of the nation's vehicle revenue miles and hours. In 2006, California passed the first Global Warming Reduction Initiative with AB 32, setting in motion the need to reduce green house gas emissions (GHG). In 2008, SB 375 was passed directing metropolitan planning agencies to reduce GHG. The State has identified a number of strategies to reduce GHG emissions that emphasizes the use of public transportation and land use such as increased Transit Oriented Developments.

Transit Issues

Transit Connectivity

The transit system is faced with some gaps in connectivity. Many transit riders rely on different transportation modes to complete a trip. For example, as transit ridership has increased, the issue of providing passenger services for the first and last mile of trips has become apparent. Lack of connectivity to different modes of service could cause central transit hubs to be underutilized.

Transit Funding

Transit funding is a complex issue in California. There is a host of federal and State grants available to transit agencies for capital purchases, improvements and some operating costs. However, transit funding in California has recently changed as the state tries to resolve its fiscal issues. In the 2009 State Budget, State Transit Assistance (STA) funding was eliminated for the next five years. With the elimination of STA funds, transit agencies across the State have reduced their operating services. The federal government added additional grant money through the American Recovery and Reinvestment Act (ARRA) for transit projects to help sustain the economy, but this funding is temporary.

¹ NTD Historical Data File TS2.1, available at <http://www.ntdprogram.gov/ntdprogram/data.htm> accessed 10/22/09.) This information does not reflect any ridership variations based on recent statewide increased unemployment, furloughs and service reductions."

Statewide Transit Strategic Plan

To help the State better support public transportation, Caltrans is developing the Statewide Transit Strategic Plan (STSP). This effort, through coordination and collaboration with stakeholders, will provide the platform for Caltrans to understand common transit issues and identify solutions to reduce barriers. By recognizing how transit fits into the overall theme of integrating mobility choices into the transportation planning system operation, this plan will enhance Caltrans' transportation planning on a statewide level. The work will lead to the development of an action plan that enables Caltrans to facilitate the delivery of public transit services on the State highway system. The STSP will help California gain a better understanding of its present and future roles and responsibilities for public transportation — serving as the collective vision for California's future transit system.

INTERCITY BUS SERVICE IN CALIFORNIA



Legend

- Intercity Stops
- ≡ Passenger Railroad
- Greyhound Lines
- Amtrak Thruway Bus
- Americanos USA
- CA Shuttle Bus
- Lux Bus America
- Megabus
- Mt. Lassen Motor Transit
- Orange Belt Stages
- Transportes Intercalifornias
- USAsia Bus
- Other Connecting Regional Services
- 5311(f) Routes
- Urban Areas



Modal Plans



summaries & maps

- State Highway System
- Passenger Rail
- Goods Movement
- Public Use & Military Airports
- Transit

California's Multi-Modal Transportation System

California's complex transportation infrastructure network supports a variety of travel modes, from highways and trains, to airplanes, buses, and bikes. Ownership and operating responsibility for the various parts of the transportation system falls to a variety of entities such as counties, cities, transit agencies, ports, private businesses, regional transportation planning agencies, tribal governments, and the state.

The state represented by Caltrans, citizens, has primary responsibility for the interregional mobility of people and goods. Much of that responsibility lies in operating and maintaining the state highway system to provide a dependable and reasonable level of service, accessibility into and through gateways and adequate connectivity to intermodal transfer points. Caltrans also supports California's interregional transportation system through funding passenger rail and transit services, regulating airports, and advocating for mass transit guideways. Most importantly, Caltrans maintains an ongoing cooperative relationship between other transportation stakeholders, particularly regional and local agencies, to mutually consult, cooperate, and seek consensus on transportation priorities and strategies.

The following narratives and accompanying maps provide an overview of California's existing and proposed interregional transportation system by mode – the State highway system, the passenger rail system, the goods movement network, the state's public use and military airports, and the transit system. The narratives describe each system, the trends and issues challenging that system and how the state proposes to address those challenges. Each narrative is followed by a map or maps illustrating the existing system for each mode and, where available, a map of the future system if Caltrans were to carry out all the planned transportation investments in its existing long-range plans.

Caltrans prepares long-range planning documents for each one of these modes that describes the vision, goals, and strategic investments for meeting California's future mobility needs. Caltrans' major long-range planning documents are the following:

State Highway System

- 1998 Interregional Transportation Strategic Plan
- 2009 Ten-Year SHOPP Plan
- Corridor System Management Plans
- 2009 California High Occupancy Vehicle (HOV)/Express Lane Business Plan

Passenger Rail

- California State Rail Plan

Goods Movement

- Goods Movement Action Plan

Aeronautics

- California Aviation System Plan

Transit

- Statewide Transit Strategic Plan (Concept Draft)

Caltrans has always maintained continuity between all of its long-range planning documents. However, the California Interregional Blueprint will integrate and align these state plans, along with Caltrans sponsored programs such as the Regional Blueprint Planning Program, Complete Streets, and the Smart Mobility Framework, more directly to provide a comprehensive picture of the state's multi-modal interregional transportation system.

California Interregional State Highways

Major Planning Considerations, Trends and Implications

Introduction

The California State Highway System (SHS) is comprised of over 15,400 miles (51,000 lane miles) of roadway and carries over 185 billion vehicle miles of travel (VMT) each year. The state highway system serves the State's heavily traveled rural and urban corridors, connects the communities and regions of the State and serves the State's economy by connecting centers of commerce, industry, agriculture, natural resource wealth, and recreation. The California Department of Transportation (Caltrans) has the statutory responsibility for operations, maintenance, design, construction and long-range planning of the SHS. Caltrans establishes standards and policies to maintain the system and administers the State Highway Operations and Protection Program (SHOPP) for rehabilitation and operational improvements of the system. Caltrans conducts long-range system planning in both rural and urbanized areas to identify future highway improvements and strategies, recommend prioritized improvements for funding into local and regional plans, and provide the sound technical basis for informed discussions and decision-making.

I. Major Interregional System Elements

The state highway system serves a diverse range of needs for the interregional movement of people and goods between rural and highly urbanized areas. While all state routes are important, the Interstate system, Interregional Road System (IRRS) routes, and other major freeway trade corridors form a strong transportation network that is most critical to interregional mobility and connectivity statewide. Together, these routes carry over 80 percent of the total annual SHS VMT. Strategies to optimize the use of the system's existing capacity through better system management, integration of new technology, completing the gaps on the high-occupancy vehicle (HOV) system and completing the key underdeveloped interregional routes would help achieve maximum return from our investment and meet the State's climate goals.

For Phase 1 development of the California Interregional Blueprint (CIB), Caltrans provides a progress status on each of the Focus Route included in the 1998 Interregional Transportation Strategic Plan (ITSP). The HOV System network is also included to emphasize the need to close gaps for system continuity. These system plans are the most readily available information for illustration purposes and provide a conceptual framework for the CIB. Ultimately, the plan is to identify future highway improvements and gaps on the IRRS (*Refer to Map – Interregional Road System*), with special emphasis on the non-urbanized areas. Priority improvements, specific to goods movement, are noted separately in the Goods Movement Action Plan section of the CIB.

Interstate System

The designated Interstate system is the backbone of the state's transportation network for interregional, interstate and international goods movement, access to airports, air cargo terminals, and other major gateways in the urbanized area. The Interstate system is the only "completed freeway system" in California in terms of continuous high facility standards. The Interstate system is less than 18 percent of all state highway miles, however, it carries over half of all VMT annually (over 80 billion VMT) and over half of all VMT in the urbanized and metropolitan areas. The State's large metropolitan centers in Southern California and the Bay Area in Northern California rely heavily on the Interstate system for interregional and regional

mobility. In rural and nonurbanized areas, the Interstate system primarily serves critical interregional goods movement needs and recreational travel.

Interregional Road System

The IRRS was first identified in statute in 1989 as part of the Blueprint Legislation. The IRRS is defined as a series of interregional state highway routes, outside the urbanized areas, that provides access to, and links between, the State's economic centers, major recreation areas, and urban and rural regions. This is simply a subset of the existing state highway routes and part of the Freeway and Expressway (F&E) System. The IRRS was conceived as part of the larger effort to address the critical transportation system funding and development needs of the State. Like most of new programs created by Legislation, the implementation is dependent on increases in state transportation revenues.

The passage of Blueprint Legislation (1989) and Senate Bill 45 (1997) made significant changes to the priorities and processes for programming and expenditure of state transportation funds. The funding formula for the State's interregional program is 25 percent and the regional share is 75 percent. The intent was for the State to be responsible for the interregional travel in the non-urbanized areas on the IRRS routes. Regional and local agencies are responsible for regional and sub-regional travel, and given the flexibility in identifying projects and system improvements to address congestion in their areas.

The term "High Emphasis Routes" was first coined in the 1990 IRRS Plan. This Plan was required in the Blueprint Legislation, but was deleted under SB 45. The High Emphasis Routes are characterized by Caltrans as the most critical IRRS routes identified in the 1990 Plan as the State's priority for programming and candidates to upgrade to freeway/expressway standards. Some Interstate routes are included as High Emphasis to highlight their critical importance to the interregional travel and the state as a whole; but they are not a priority for programming.

The term "Focus Route" is a phrase specific to the Caltrans' Interregional Transportation Strategic Plan (ITSP). The ITSP superceded the 1990 IRRS Plan and was developed in response to SB 45 to guide the investments in the State's Interregional Improvement Program (IIP). Focus Routes are a subset of the High Emphasis Routes and represent the ten IRRS corridors that should be the highest priority for upgrade to freeway and expressway standards in a 20-year period. When completed, the Focus Routes will connect all urban areas (including high-growth urbanizing areas), geographic goods movement gateways, and link rural and small urban areas to this trunk system. The Focus Routes can also be managed through a system management approach based on performance measures. (*Refer to ITSP Fact Sheet and Focus Route Development Strategy Map*).

Urban growth and development in California in the past 30 years has been directly along the Interstate System and Focus Routes (*Refer to Map – Designation Trend of Urbanized Areas on Transportation Paths*). Better management of the Interstate system and completion of the Focus Routes are central to both supporting interregional travel to and through urbanized areas and for rural mobility.

II. Major Statewide Initiatives/Plan

Importance of Corridor System Management Plans (CSMPs) for California's Mobility

Caltrans, in collaboration with regional and local partners, relies on the development of the CSMPs to manage corridor mobility and operations now and in the future. The CSMPs are based upon the concepts in Caltrans' Transportation Management System (TMS) Master Plan that was required by the California State Legislature in 2004. The TMS Master Plan is the foundation of the transportation component of the Governor's Strategic Growth Plan (SGP). This system management approach will restore productivity to the State's transportation system, improve corridor throughput, enhance travel time reliability across all corridor elements, and support economic growth.

The TMS Master Plan identifies three principal elements that will help restore productivity. These are: traffic control (such as ramp meters and improved signal timing on local arterials), incident management, and traveler information. These elements must be built on a strong foundation of detection in order to measure freeway performance. Aggressive deployment of these TMS elements could, on the freeway system alone, increase productivity by 20 percent, reduce projected congestion by 20 percent, and improve travel time reliability by 10 percent.

The CSMPs support and complement meeting the goals of the California Regional Blueprint efforts, compliance with Assembly Bill (AB) 32 and Senate Bill (SB) 375 to reduce greenhouse gas emissions, and the Smart Mobility Framework (*Refer to Smart Mobility Framework Fact Sheet*).

2009 High Occupancy Vehicle (HOV)/Express Lane Business Plan

An important element of efficiently operating California's highways is the State's HOV and express lanes - also known as high-occupancy tolling (HOT) or managed-lane system. The California HOV/Express Lane Business Plan guides the current and future development and operation of HOV and express lanes throughout the State. Caltrans Division of Traffic Operations takes the lead in implementing the business plan but it is developed in partnership with the regional transportation planning agencies, the California Highway Patrol and the Federal Highway Administration.

Currently, California has over 1,500 lane miles of HOV lanes, including three express lanes operating or under construction. Additionally, due to state and federal legislation and funding incentives, over 1,300 additional lane miles of HOV or express lanes are programmed or proposed, including a regional HOT lane network. (*Refer to Maps – HOV Lane System for Northern and Southern California*). By adjusting HOV lane operations (occupancy minimums and access design) and introducing tolling ("Express Lanes") the state and regional partners can actually manage congestion. The HOV/Express Lane Business Plan lays out a course of action during 2009-2011 for Caltrans and its partners to easily implement more flexible and effective system management strategies for HOV and Express lanes.

2009 Ten-Year SHOPP Plan

Caltrans' 2009 Ten-Year SHOPP identifies the needs to maintain and preserve the state highway system (2010 to 2020). The SHOPP Plan identifies specific performance measures and includes a cost estimate for the first five years of the plan. Capital improvements programmed in the SHOPP are limited to maintenance, safety improvements, and rehabilitation of the State highways and bridges, which do not add capacity to the system. Eligible SHOPP projects are grouped into eight categories: emergency response, collision reduction, mandates, bridge preservation, roadway preservation, mobility, roadside preservation and facilities.

The SHOPP is funded from the State Highway Account (SHA), receiving money through excise tax on gasoline and diesel fuel. Projected SHA funding available for the SHOPP is about \$1.5 billion per year, which represent about 24 percent of the estimated annual need. Since funding is insufficient to preserve and maintain the system, Caltrans will have to focus resources on the most critical categories of projects in the SHOPP. In the absence of new revenue sources, the condition of the transportation system will continue to deteriorate over the next ten years.

Caltrans has also identified 20 high-priority future SHOPP projects that involve a complex environmental, or project selection process, or require more than four years lead time for delivery of the construction contract documents. To achieve the goals identified in the Ten-Year SHOPP Plan, Caltrans will have to start the environmental review process prior to programming these projects. The intent is to propose these projects for programming at the earliest opportunity.

Sources:

Statewide Corridor System Management Plan

<http://www.corridormobility.org>

Transportation Management System Master Plan

<http://www.dot.ca.gov/hq/traffops/sysmgtp/rep/ports/MasterPlan.pdf>

California High Occupancy Vehicle/Express Lane Business Plan

http://www.dot.ca.gov/hq/traffops/systemops/hov/Express_Lane/

SHOPP Program

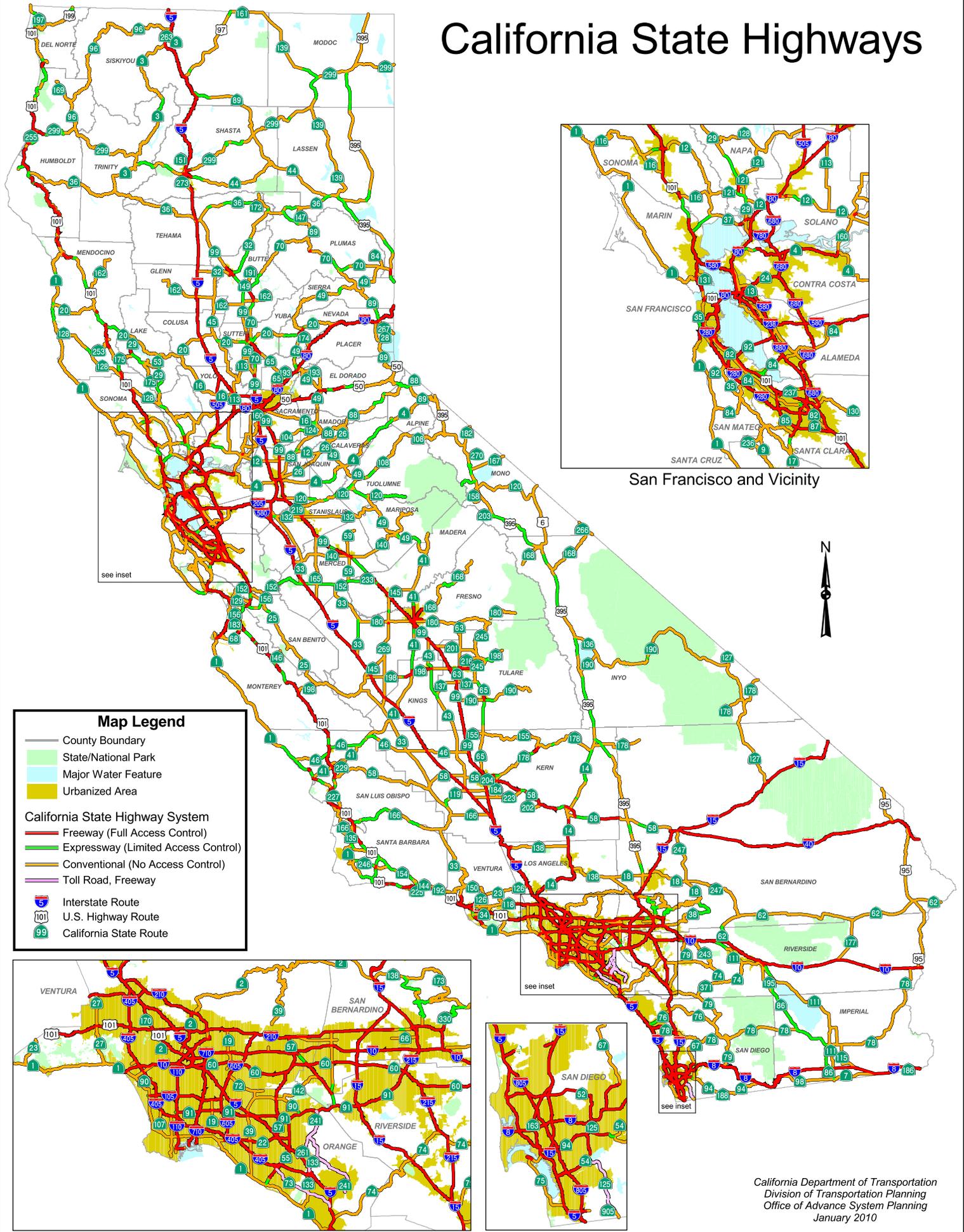
<http://www.dot.ca.gov/hq/transprog/shopp.htm>

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California State Highways



see inset

see inset

see inset

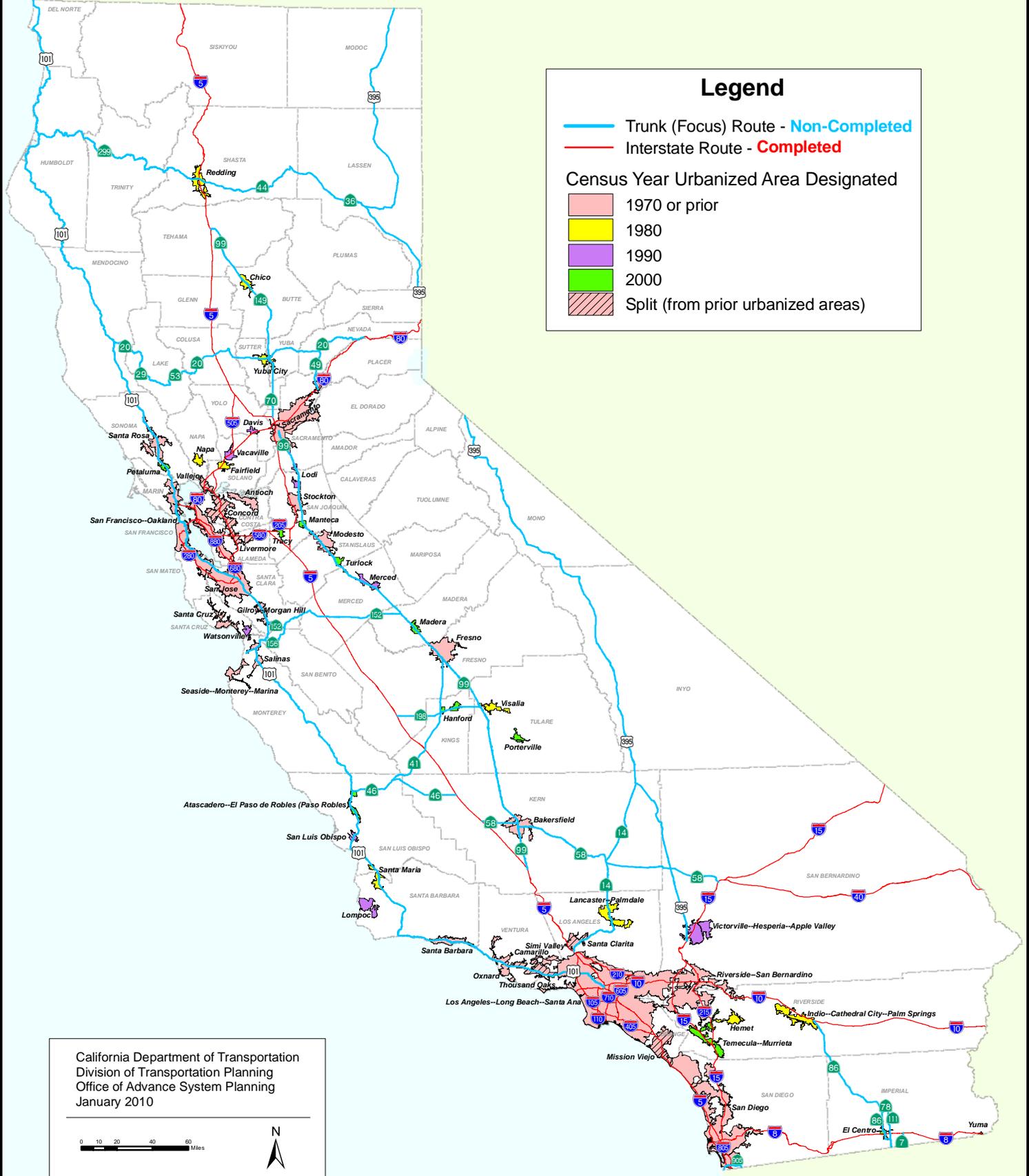
Map Legend

- County Boundary
 - State/National Park
 - Major Water Feature
 - Urbanized Area
- California State Highway System**
- Freeway (Full Access Control)
 - Expressway (Limited Access Control)
 - Conventional (No Access Control)
 - Toll Road, Freeway
- Interstate Route
 - U.S. Highway Route
 - California State Route

Los Angeles and Vicinity

San Diego

Designation Trends of Urbanized Areas on Transportation Paths



Legend

- Trunk (Focus) Route - **Non-Completed**
- Interstate Route - **Completed**

Census Year Urbanized Area Designated

- 1970 or prior
- 1980
- 1990
- 2000
- Split (from prior urbanized areas)

California Department of Transportation
 Division of Transportation Planning
 Office of Advance System Planning
 January 2010

0 10 20 40 60 Miles

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Interregional Transportation Strategic Plan (1998)

The State Transportation Improvement Program (STIP) Guidelines, adopted by the California Transportation Commission (CTC), require Caltrans to develop and keep updated an Interregional Transportation Strategic Plan (ITSP). The ITSP includes a vision, strategies, performance measures, principles and key objectives to guide the investment of the State's Interregional Improvement Program (IIP). These objectives are:

- Completing a trunk system of higher standards (usually expressway/freeway state highways);
- Connecting all urbanized areas, major metropolitan centers, and gateways to the freeway and expressway system to ensure a complete statewide system for the highest volume and most critical trip movements;
- Ensuring a dependable level of service for movement into and through major gateways of statewide significance and ensuring connectivity to key intermodal transfer facilities, seaports, air cargo terminals, and freight distribution facilities;
- Connecting urbanizing centers and high growth areas to the trunk system to ensure future connectivity, mobility, and access for the State's expanding population;
- Linking rural and smaller urban centers to the trunk system; and
- Implementing an intercity passenger rail program toward specified goals.

Overview of the Focus Route Corridors and Challenges

The term "Focus Route" is a phrase specific to the ITSP. The Focus Routes represent the 10 most critical interregional route corridors that are State's highest priority for IIP funding and upgrade to higher facility standards (usually expressway and freeway). Focus Routes are a subset of the High Emphasis Routes. It include all the non-Interstate routes in the High Emphasis category and 21 additional routes or route portions that constitute a major logical transportation corridor.

Completing the Focus Route corridors will provide a statewide trunk system for serving higher volume interregional trip movements. These corridors together with the Interstate system form a backbone system for additional capacity and a complete transportation facility for the State.

The main difference in highway facility type is access control.

Freeway - a divided arterial highway for through traffic with full control of access and with grade separations.

Expressway - an arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

Conventional highway means access from adjoining property is not restricted; Where it is restricted, it is either an "expressway" (intersections are not grade-separated) or "freeway" (intersections are grade separated with interchange structures)

The Focus Route corridors balance north-south and east-west access and connectivity statewide. North-south route corridors include US 101, State Route (SR) 99, US 395/SR 14, portions of SR 7, SR 111, SR 78, SR 86 and all of SR 905. These route corridors are vital interregional routes extending almost the length of California from Oregon to Mexico. They serve diverse travel demands from a major commute corridor through the urbanized areas, to prime rural recreation and tourist routes along with significant goods movement route for truck travel.

The east-west focus route corridors include SR 58, SR 41/46, SR 152/156, SR 198, SR 20 combined corridor with SR 29/53 and SR 49, and SR 299/44/36. The four east-west routes (and route portions) below Sacramento to Bakersfield (SR 152/156, 198, 41/46 and 58) serve the highest degree of interregional people and goods movement, connectivity, and accessibility. They provide operational flexibility for emergencies across multiple counties from central coast to the valley. SR 20 and SR 299 corridors (and route portions) serve interregional movement of people and goods across the northern Sacramento Valley and provide routing alternatives for emergencies in the north State.

California currently has 55 urbanized areas. Thirty-three out of 55 urbanized areas with a combined population of nearly five million people are currently not served by a State highway completed to freeway and/or expressway standards. Twenty-four of the 33 urbanized areas are directly on the Focus Route corridors and eleven are within a short distance to either a Focus Route corridor or an Interstate system. SR 99 alone has 13 urbanized areas underserved by the lack of a completed freeway. The Focus Routes combined represent less than 20 percent of the State highway miles. However, they carry over 32 billion vehicle miles of travel (VMT) annually and the second largest daily VMT for 5-axle trucks (25%), next to the Interstates (58%). Eighty three percent (83%) of all large truck travel is handled by these two systems. As population and economic growth continues in California, the need for higher facility standards becomes more pressing.

Plan to Meet the Challenge

The route development concept strategy for the Focus Routes corridors includes upgrading over 2,200 lane miles of conventional highways to freeway/expressway standards and constructing over 170 lane miles of new passing and truck climbing lanes over the 20-year period (1998-2020). Since 1998, nearly 600 lane miles (or about 25 percent) have been constructed, including those that are currently under construction. These major system improvements added new capacity and improved the operation of the Focus Route corridors.

A statewide map (Refer to Focus Route Development Strategy Map) demonstrates the progress of completing the Focus Routes including the remaining gaps on the system. The current 2008 State Transportation Improvement Program (STIP) programmed over \$4.5 billion of combined state, regional, local, Proposition 1B and Transportation Congestion Relief Program funds for continued improvement on the Focus Routes. This significant investment will add over 320 lane miles of freeway/expressway and about 20 lane miles of passing and truck climbing lanes to the interregional system.

However, given the current economic downturn and funding shortfalls, funding and construction of these programmed improvements could be further delayed or un-programmed in future STIPs. The parallel issue of increasing demand for maintenance and rehabilitation of the aging state highway system would also decrease the available STIP to fund current and future planned improvements on the Focus Routes. A challenge for funding the completion of the Focus Routes is to ensure full regional partnerships with regional improvement program dollars, considering the available county minimums.

Sources:

1998 Interregional Transportation Strategic Plan

<http://www.dot.ca.gov/hq/transprog/ocip/te/itsp.pdf>

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Focus Route Development Strategy 1998 - 2020 (non-urbanized areas)

Implementation Progress Report of the
1998 Interregional Transportation Strategic Plan (ITSP)

Legend

Funding Status (1998 - 2008 STIP)

- Constructed/Under Construction (Funded)
- Future Completion (Programmed/Planned)
- Focus Route
- Interstate Route
- Urbanized Area



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Division of Transportation Planning
Office of Advance System Planning
January 2010

0 10 20 40 60 80 Miles

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Passenger Rail

Currently, California's passenger rail system combines intercity, commuter, and urban rail. In the future, high speed rail plans to join these existing rail types to enhance the State's passenger rail system. While Caltrans assumes different roles in the operation of the many passenger rail lines in California, the State strives to make the passenger rail system as "seamless" as possible with excellent connectivity to other transportation systems. Designing for connectivity enters into virtually every aspect of operations, marketing and capital planning. The California State Rail Plan describes the overall vision for the State's intercity and commuter rail systems which (along with freight rail) share the same infrastructure, generally owned by private railroads. Urban rail services (such as the Los Angeles County Metro Rail and BART) operate on separate tracks and are locally controlled and funded, so they are not covered in the State Rail Plan. However, to further the implementation of a safe, integrated, multi-modal transportation system, it is essential that the intercity and commuter rail systems be well integrated with the urban transit rail and bus systems.

Existing Intercity Rail Service

Intercity passenger rail service is a component of the State's overall transportation system and operates between several regions of the state. In California, Amtrak operates all State-supported intercity rail service. Caltrans provides operating funding for the three Amtrak California routes, the Pacific Surfliners (San Diego to San Luis Obispo), the San Joaquins (Bay Area/Sacramento to Bakersfield), and the Capitol Corridor (San Jose to Auburn). In addition, as part of its national intercity rail system, Amtrak funds and operates four long distance train routes that link California to other states. These routes include the Coast Starlight (Los Angeles to Seattle), California Zephyr (Emeryville to Chicago), Southwest Chief (Los Angeles to Chicago), and the Sunset Limited (Los Angeles to New Orleans). The State-supported routes connect with each other and with Amtrak's national intercity passenger rail network. Many passengers use State-supported routes as part of a longer rail trip. Coordination of schedules generates additional ridership and can improve overall efficiency. See map for routes.

Existing Commuter Rail Services

Commuter rail operates primarily within a single region of the State, serving regional and local transportation needs. Because commuter rail serves local and regional transportation needs, these services are planned and administered by local and regional transportation agencies. Various sources of funding are available at the local, state, and federal levels. Some capital funding is provided by the state through the State Transportation Improvement Program, and other sources, but operating funding is provided by the local and regional agencies. California's existing commuter routes are Coaster (San Diego to Oceanside), Metrolink (Los Angeles, Orange, Riverside, San Bernardino, and Ventura counties), Caltrain (San Francisco-Gilroy) and Altamont Commuter Express (ACE) (Stockton to San Jose). See map for routes.

Existing Streets and Highways

Caltrans works to ensure that the trains are well connected to streets and highways through proper design of stations and signage, including pathfinder signs on local streets and roads and State highways that guide passengers to Amtrak stations.

Trends and Challenges

Caltrans' vision for California's intercity rail system includes three key elements:

Provide a rail transportation alternative to other travel modes; provide relief to highway and air transportation congestion; and improve air quality, conserve fuel, and contribute to efficient and environmentally superior land use.

The box at the right describes specific goals for the State's intercity passenger rail system vision.

One key challenge for State-supported intercity rail is adequate and predictable funding for capital projects needed to maintain and expand the system.

The only ongoing capital funding source is a limited portion of the State Transportation Improvement Plan (STIP) funds. The State's ten-year \$4.03 billion capital program through fiscal year 2017-18 for the three existing State-supported intercity routes (Pacific Surfliners, San Joaquins, and Capitol Corridor) and for new routes/extensions represents a program based on program needs, and not on funding expectations. Full implementation of this capital program will require major Federal funding. The State applied for Federal stimulus funds being made available in 2009-10 and received about \$100 million in funding. Future grant cycles are anticipated.

Intercity Passenger Rail Goals

- Expand capacity on existing routes
- Reduce train running times
- Improve equipment, stations, and facilities
- Enhance multi-modal connectivity
- Increase fare box ratio
- Improve safety
- Implement new cost effective routes

Proposed Intercity and Commuter System Description

As part of its 10-year intercity rail plan, the State proposes to increase service frequencies on all three existing intercity routes (Pacific Surfliners, San Joaquins, and Capitol Corridor), and to add three new extensions of existing State-supported service:

- 1) Expand service from San Francisco to San Luis Obispo and Los Angeles as part of the Pacific Surfliners
- 2) Expand service from Sacramento to Redding
- 3) Expand service from Sacramento to Reno
- 4) Initiate service from Los Angeles to Indio (Coachella Valley).

The four commuter rail agencies (Coaster, Metrolink, Caltrain, and ACE) also have plans for expansion of service. In addition, there are three planning initiatives for commuter rail. The Southern California Association of Governments (SCAG) has initiated a study of commuter rail service for Ventura and Santa Barbara counties. Sonoma Marin-Area

Rail Transit District proposes service between Cloverdale and the Larkspur Ferry Terminal. Six agencies have partnered to develop a service plan for a new regional commuter rail service in the Auburn and Oakland urban corridor, which would be integrated with the Capitol Corridor. See map for proposed routes.

Proposed High-Speed Rail Service Description

In 2008, the State Legislature approved and Governor Arnold Schwarzenegger signed AB 3034 (Galgiani), placing a \$9.95 billion bond measure for high speed rail on the November 2008 ballot. Proposition 1A asked California voters to approve a down payment on construction of the high-speed train line, led by the California High Speed Rail Authority (Authority). The bond measure passed and the Authority is currently working on obtaining environmental clearance on project sections.

As reported by the Authority, the major sections of the proposed high speed train system include: Los Angeles to Orange County, Los Angeles to Bakersfield, Bakersfield to Fresno, Fresno to Merced, Merced to San Jose, and San Jose to San Francisco. Subsequent sections of the system would extend north to Sacramento and south to San Diego. See map for proposed routes. The system will be built, whenever possible, along or adjacent to existing rail transportation facilities instead of creating new transportation corridors. In addition, in most major cities, the high-speed train station will be developed in conjunction with existing rail transportation hubs to produce the most efficient linkages to local and regional transit systems. The Authority is working on a timeline that would see a complete high-speed train system in place by 2030; subsequent sections would be constructed after that time.

Proposition 1A will provide \$9 billion in state general obligation bonds that require other federal, state, local, and private financing to be secured before construction can proceed. Another \$950 million included in the bond measure will be used to finance capital improvements to commuter, intercity rail, and transit lines in order to connect existing infrastructure to the high-speed rail system. In February 2010, the Authority received \$2.25 billion in Federal stimulus funds.

The Authority and regional partners are proposing to develop a dedicated regional rail corridor through the Altamont Pass and the Tri Valley area capable of supporting intercity and commuter rail passenger services. This project is a separate corridor project from the statewide high-speed train system. Project-level environmental review is currently underway.

Other Proposed High Speed Rail System Descriptions

The DesertXpress is a proposed new high-speed, steel wheel on rail double track interstate passenger rail line. This new line, being proposed by a private consortium, would run 190 miles between Victorville, California and Las Vegas, Nevada. It would run primarily at grade but would be completely grade-separated from all streets and

highways. The federal environmental impact statement (EIS) process is currently underway for this route.

Two high speed rail Maglev projects (Southern California Maglev Project and the Las Vegas–Anaheim Maglev Project) are also being proposed. Maglev technology uses magnetic forces to lift, propel, and guide a vehicle over a guideway. These two projects have significant hurdles to overcome. Their sponsors will need to complete engineering work and environmental documentation to further the initial concept design plans and a principal funding source remains to be identified.

Source: California Rail Plan 2007-08 to 2017-18

<http://www.dot.ca.gov/rail/go/dor/california-state-rail-plan/index.cfm>

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Source: California High-Speed Train Business Plan

<http://www.cahighspeedrail.ca.gov/library.asp?p=8200>

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California Intercity and Commuter Rail Network

(including connecting bus service)

Current System as of February 2010



LEGEND

Intercity Services

- Capitol Corridor®
- San Joaquin®
- Pacific Surfliner®
- Amtrak Thruway Motorcoach Services (most intermediate stops not shown)
- Amtrak Interstate Rail Routes

Commuter Services

- Caltrain
- ACE
- Metrolink
- Coaster
- BART

Other Symbols

- City w/ Rail Station or Bus Stop
- Major Rail Transfer or Rail Terminal City

California Department of Transportation
Division of Rail - acm.v3
February 2010

0 25 50 75 100 mi
0 25 50 75 100 km

N

California Intercity and Commuter Rail Network Proposed Intercity, Commuter and High Speed Rail Services

Proposed Frequency Increases on Existing Intercity Corridors

Corridor	2010	2018
Pacific Surfliners		
San Diego-Los Angeles	11	13
Los Angeles-Goleta	5	6
Goleta-San Luis Obispo	2	3
San Joaquins		
Oakland-Bakersfield	4	5
Sacramento-Bakersfield	2	3
Oakland-Stockton	2	2
Capitol Corridor		
San Jose-Oakland	4	16
Oakland-Sacramento	12	18
Sacramento-Roseville	1	10
Roseville-Auburn	1	4

LEGEND of PROPOSED RAIL SERVICES

Intercity Rail Services

- (A) Sacramento – Redding
- (B) Auburn – Reno
- (C) San Luis Obispo – San Francisco
- (D) Los Angeles -Indio

Commuter Rail Services

- (E) Auburn – Oakland Commuter
- (F) Sonoma Co. – Marin Co. (SMART)
- (G) ACE Proposed Extensions (4 lines)
- (H) Dumbarton Rail Corridor
- (I) Catrain Salinas Extension
- (J) Santa Barbara – Ventura Co. Commuter
- (K) Metrolink Santa Paula Branch
- (L) Metrolink Perris Extension

High Speed Rail

- ① CA High-Speed Rail – Phase 1
- ② CA High-Speed Rail – Phase 2 (3 lines)
- ③ Altamont Corridor Project
- ④ Desert Express – Phase 1
- ⑤ Desert Express – Phase 2

CURRENT SERVICE LEGEND

Intercity Services

- Capitol Corridor®
- San Joaquin®
- Pacific Surfliner®
- Amtrak Thruway Motorcoach Services (most intermediate stops not shown)
- Amtrak Interstate Rail Routes

Commuter Services

- Caltrain
- ACE
- Metrolink
- Coaster
- BART

Other Symbols

- City w/ Rail Station or Bus Stop
- Major Rail Transfer or Rail Terminal City

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February 2010



Goods Movement

California's goods movement network of highways, rail lines, seaports, airports, and border crossings is an essential part of the State's interregional transportation system. California's goods movement strategy is laid out in the Goods Movement Action Plan (GMAP), developed between 2005 and 2007. The GMAP outlines a multimodal/interregional approach to address the economic and environmental issues associated with moving goods via the state's highways, railways and ports. The GMAP recognized the need to expand system capacity in tandem with significant reductions to the environmental and community health impacts associated with freight transportation.

Although the recent economic picture has substantially reduced overall trade volumes, economists expect recovery will occur over the next few years. For this reason, California must continue its strategic approach to freight transportation during a period of relative inactivity.

The following 'snapshot' provides a context for understanding the importance of the system to the State's economy and citizens, as well as its importance to the nation as a whole, and the continued need to plan and deliver appropriate infrastructure. It is clear from this snapshot that a standardized approach to planning for California's current and future goods movement transportation system will not only be inadequate but will actually be counterproductive. Thus, our planning efforts will continue to identify innovative partnerships, initiatives and funding opportunities.

2007 California Good Movement Facts

- California's Gross Domestic Product (GDP) was \$1.7 trillion, which put California as the tenth largest economy in the world and represented 13 percent of the U.S. GDP. Considered as an independent nation, California would rank between Canada and Italy.
- 12 percent of the nation's population lived in California; international trade represented 25 percent of the State's economy.
- Hispanic buying power was estimated to be \$228 billion annually and California's Asian consumer market is estimated at \$150 billion annually.
- Exports accounted for 12 percent of total U. S. exports. California's top trading partners are Mexico, Canada, Japan, China and South Korea.
- Total trade equaled \$516 billion in exports and imports flowed through the state by air, land and sea. From 2006 to 2007, exports increased \$7 billion, to \$134 billion.
- Airborne agricultural exports totaled \$685 million (Los Angeles Basin and San Francisco Bay Area airports handled 93 percent of total California air cargo).
- California's goods movement infrastructure is important to the nation's economy in terms of both exports and imports. In 2006 over 8 percent of all goods moving into and out of America use California's highways, railroads, ports and airports and 45 percent of the nation's container volume surge through California's ports, highways and railways. This is a significant impact to the State's transportation and community infrastructure.

The GMAP was a significant policy initiative that supports subsequent actions, including the freight elements of Proposition 1B, and continues to guide freight-related decision-making. It also guides our input to the Surface Transportation Act currently being debated in Congress. The GMAP was specifically designed to be a living document with regular updates beginning with a major update in 2011. The 2005 priority project list will be revisited and revised in line with current conditions. The air cargo section and agriculture sections will be significantly expanded. Also to be expanded is goods movement infrastructure needs associated with tribal governmental economic development projects.

The State continues to invest in projects that will provide a safer, more effective transportation system for moving goods to and through California. Delivering the Trade Corridors Improvement Fund (“TCIF”) projects (nearly \$3 billion), and the Caltrans sponsorship of \$143.8 million in key freight rail projects from the federal government’s Transportation Investments Generating Economic Recovery -- “TIGER”--discretionary grant program are key components of this commitment. As the economy recovers, other efforts will be needed to meet the challenges that arise.

Caltrans is committed to improving the movement of goods in all areas of our transportation system and to reducing associated health impacts in our communities. Thus—beyond the State actions and initiatives described above--we’re also working with Congress as it develops the new Surface Transportation Act to increase our share of federal funding for projects at our borders, seaports and throughout our vital system of highways. We are also forging new and innovative partnerships with non-traditional industry sectors, such as the Class I railroads operating in California.

The attached map shows the primary goods movement corridors in California:

Freight Rail System Overview

California is a key state in the national freight rail system. In 2005, California railroads operated over 7,355 miles of track and carried over seven million carloads of freight. Railroad service plays a critical role to California, to the United States and the global economy. Burlington Northern Santa Fe (BNSF) and Union Pacific (UP) serve the import and export markets for a large number of Pacific Rim countries. Approximately 45 percent of intermodal traffic entering or leaving the U.S. passes through California ports.

Rail capacity and constraints

Rail capacity has become more constrained due to the increasing volumes of cargo imported and exported into and out of the State through our major seaports and trade gateways. This increased trade is due to rapidly increasing population in California, other states and foreign countries that are served by the State’s rail infrastructure and goods movement industry.

Operational Conflicts: Passenger/Freight; Freight/Freight

In most areas of the State, rail passenger share rail rights-of-way (ROW) with freight railroads. In this case, the main issue is the capacity of the route to accommodate both rail passenger and freight rail. Statewide, shared use of ROW includes:

- Pacific Surfliner, San Joaquin, and Capitol Corridor;
- Southern California Metrolink commuter rail system;
- San Diego County Coaster commuter rail system;
- Caltrain commuter rail system in the San Francisco Bay Area;
- Altamont Commuter Express rail system.

Rail passenger operators have plans for adding more trains over the next several years. In some cases, rail capacity is insufficient to handle existing levels of both passenger and freight service, particular in the urban areas with substantial passenger and rail traffic.

Rail System Preservation

BNSF and UP have some 5,488 miles of track in the State. To improve productivity, profitability and maximize capacity, railroads have made many improvements. However, the high cost of these improvements has been limited to upgrading only the highest volume and most profitable lines, and leaving other lines downgraded or abandoned.

Many states believe freight service is vital to their economies and have made freight rail service, especially the preservation and retention of lower density branch lines, a significant part of their economic development and transportation programs. Therefore, it is critical to keep an inventory of inactive, underutilized, and abandoned rail segments and rail corridors for possible increased and or future use. Often times, when rail is removed for other purposes, the rail service is lost forever.

Source: Goods Movement Action Plan

http://www.dot.ca.gov/hq/tpp/offices/ogm/links_files/gmap-1-11-07.pdf

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Source: California Rail Plan

<http://www.dot.ca.gov/rail.go/dor/california-state-rail-plan/index.cfm>

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Priority Regions and Corridors in California



Legend

- Port of Entry
- ✈ Major Airports
- ⚓ Major Seaports
- ++++ Major International Trade Railroad Routes
- Major International Trade Highway Routes
- Priority Regions and Project Focus Areas

California Department of Transportation
 Division of Transportation Planning
 Office of Goods Movement
 January 2010

0 10 20 40 60 80 Miles

N

Public Use and Military Airports

California's 250 public use airports consist of a combination of privately owned airports, and airports that are owned by local governments, or airport districts. Ownership and operation of an airport is sometimes a combined public-private effort between a city or county, and a contract airport management company. Regardless of who owns or operates the airports in California, they are all part of a global aviation network. There are three types of airports: commercial, military, and general aviation (GA). GA airports can be for public use, or private use. As their name implies, public use airports are open to the general public and anyone can use them, while private use airports can only be used by their owner or invited guests. In addition to the public use airports, the federal government owns and operates numerous military airfields throughout state. Civilian aircraft must have special permission to use these military airfields.

Trends and Issues

Capacity Constraints

Capacity at commercial service airports is defined as the maximum volume of all arriving and departing aircraft. An airport can only handle a specific number of operations without saturation (the equivalent to gridlock), and is limited by runways, taxiways, and terminals. In 2003 and 2007, the Federal Aviation Administration (FAA) completed two major national airport capacity assessments, publishing their findings in the Future Airport Capacity Task (FACT) 1 and 2 reports. The reports focused on the fastest growing metropolitan areas in the country. They identified five California airports as being among the most capacity constrained airports in the nation. These airports are: John Wayne Airport (Orange County), Oakland International and San Francisco International Airports (San Francisco Bay Area), Long Beach Airport (Los Angeles County) and San Diego International (San Diego County). San Diego International is so constrained that the only way future demand can be met is through the construction of a new airport.

Although FACT 1 and 2 focused primarily on the nation's commercial airports, it acknowledged that GA airports would have an important part in meeting future system wide capacity needs. GA airports provide back-up capacity for both commercial and non-commercial aviation demand. Preservation of airports through better interagency planning, and secure funding would insure that California's future air travel demands are met. Unfortunately, GA airports are often overlooked in transportation planning at all levels of government in California.

Complex Regulatory Framework

Airports are governed by a complex regulatory framework. They must comply with federal, state, and local aviation regulations. They must also work with numerous non-aviation agencies that have permitting or funding authority, including federal and state environmental protection and resource agencies, the Army Corps of Engineers, regional transportation planning agencies, and local governments. The State's role in regulating airports through the Caltrans Division of Aeronautics (Division) includes permitting airports and heliports, and conducting periodic safety

inspections to ensure compliance with design standards stipulated in the California Code of Regulations. The Division also provides land use guidance through planning documents such as the Airport Land Use Compatibility Handbook and the California Aviation System Plan (CASP), manages the State's Airport Noise Program, and administers airport funding through its loan and grants programs. Local government agencies are responsible for land use around airports. They include airports in their General Plan policy document and use implementing tools such as Specific Plans and zoning ordinances. Airport Land Use Commissions (ALUC) develop recommended land use strategies for property around each airport, and write Airport Land Use Compatibility Plans (ALUCP) for the airports in their county. Regional and Metropolitan Transportation Planning Agencies include airport planning as part of their overall transportation planning and programming i.e. funding work. This overlapping jurisdictional responsibility sometimes results in contradictory regulations, investments and plans.

Aviation Funding

Unlike other modes of transportation, airports are not funded through the State Highway Account and State Transportation Improvement Program process. The bulk of funding for GA airports comes either directly from the FAA or indirectly through the State's Aeronautics Account to the eligible public use airport owners. The types of funds available to an airport depend on the federal and state grant programs criteria.

Recent State budget balancing efforts have resulted in significant reductions in the Aeronautics Account. Suspension of all Aeronautics grant programs for FY 2009/10 and transfer of \$4.0M from the Aeronautics Account has negatively impacted airports in several ways. Airports no longer have the State money to use as a match for the federal grant funds to improve their facilities. Thus, some airports are deferring routine maintenance which will result in higher future operation and maintenance costs. Airports are not eligible to receive Annual Credits in the amount of \$10K/year to address safety and operational expenses, and airports are not eligible to apply for Acquisition and Development grants for safety projects that may not have been funded by the FAA.

See State *Dollars for Your Airport* for additional details regarding airport funding at: <http://www.dot.ca.gov/hq/planning/aeronaut/document/StateDollarsForAirport2009.pdf>

Perceptions and Misperceptions about the Value of Airports

According to the June 2003 economic study *Aviation in California: Benefits to Our Economy and Way of Life*, aviation generates almost 10% of the State's GDP and employment base. Aviation offers an effective business tool for expediting delivery times of passengers and cargo. Corporate location decisions are sometimes based on proximity to an airport. GA airports in rural communities provide vital links to the rest of the State and world.

Unfortunately for all their benefits, the value and potential of California's airports are often under estimated. If the airport environs are preserved to allow for airport growth, airports can be a revenue generating asset that contributes to the long term economic well being of a community.

Local governments must weigh potential future revenues against immediate short term tax revenue gains from residential and commercial projects.

Adjacent Airport Land Uses

The single most challenging issue facing California airports is encroachment from incompatible land uses. An incompatible land use means any land use or structure that interferes with the safe operation of the airport, or is inconsistent with the State mandated Airport Land Use Commission's compatibility plan pursuant to Public Utilities Code 21001 et seq. Competing land uses, misunderstanding of an airport's value to the community, and the cost of an airport's infrastructure work against the public's appreciation of their airport. Siting problems with wetlands, power plants, wind turbine facilities, expansion of existing land uses, and obstructions that penetrate navigable airspace around airports can also limit an airport's ability to operate safely, and constrain their economic viability and long term sustainability.

Future Growth Opportunities

- Growth in business aviation and goods movement
- Future demand for new commercial aircraft, and individual aircraft ownership of business aircraft (including fractional ownership)
- Modify the Division's CASP System Needs Assessment and Policy Elements to include gap analysis projects and priorities
- Add a recommendation for inclusion of an airport buffer zone, like a greenbelt, in local planning documents and policies in the 2010 Airport Land Use Handbook update
- Promote green technology at airports, such as San Francisco International and Fresno Yosemite Airports see link: <http://www.flysfo.com/web/page/about/green/index.html>
- Amend CEQA Guidelines to require distribution of NOPs to local ALUCs for all projects within 2 miles of any public use airport
- Raise visibility and importance of aviation planning within Caltrans through a director's policy or deputy directive
- Maintain Division function at Caltrans HQ, and create aeronautics liaisons in the districts
- Highlight jobs created by the aviation sector of the economy
- Address environmental justice issues around airports
- State Aeronautics Account needs dedicated reliable funding, and protection from "fund transfers" by the Department of Finance

*Source: California Aviation System Plan
<http://www.dot.ca.gov/hq/planning/aeronaut/documents/CASP2006.pdf>
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CALIFORNIA DEPARTMENT OF TRANSPORTATION
DIVISION OF AERONAUTICS

Public Use Airports - 2008 And Military Airfields



LEGEND

- ◆ Commercial/Primary
- ▲ Metropolitan
- ⬠ Regional
- Community
- Limited Use
- ✈ Joint Use (Military/Commercial)
- ★ Military/NASA



Division of Mass Transportation

Mass Transportation in California

Transit agencies are owned and operated by private, private non-profit, or public transit entities. The California Department of Transportation (Caltrans) does not own or operate any of the existing transit systems in the state and has no authority over individual transit agencies and their services. Caltrans, however, plays an important role in supporting the transit system by administering state and federal funds, such as the Federal Transit Administration's Section 5311(f) Program which supports the connection of transit services between non-urbanized and the larger regions. Caltrans also supports the infrastructure of the transit network on its state highway system to support a safe, reliable, multi-modal transportation network.

The California Transit Trend

Transit ridership in California is at an all-time high with 1.2 billion passengers annually. Transit operators provided 40% more services in 2007 than in 1997 and during the same time transit operating costs rose by almost 45% according to the National Transit Database.¹ Light rail trips increased at a higher rate than bus trips in the last five years, with bus trips becoming shorter and rail trips getting longer. In addition, California transit services accounted for 16% of the nation's vehicle revenue miles and hours. In 2006, California passed the first Global Warming Reduction Initiative with AB 32, setting in motion the need to reduce green house gas emissions (GHG). In 2008, SB 375 was passed directing metropolitan planning agencies to reduce GHG. The State has identified a number of strategies to reduce GHG emissions that emphasizes the use of public transportation and land use such as increased Transit Oriented Developments.

Transit Issues

Transit Connectivity

The transit system is faced with some gaps in connectivity. Many transit riders rely on different transportation modes to complete a trip. For example, as transit ridership has increased, the issue of providing passenger services for the first and last mile of trips has become apparent. Lack of connectivity to different modes of service could cause central transit hubs to be underutilized.

Transit Funding

Transit funding is a complex issue in California. There is a host of federal and State grants available to transit agencies for capital purchases, improvements and some operating costs. However, transit funding in California has recently changed as the state tries to resolve its fiscal issues. In the 2009 State Budget, State Transit Assistance (STA) funding was eliminated for the next five years. With the elimination of STA funds, transit agencies across the State have reduced their operating services. The federal government added additional grant money through the American Recovery and Reinvestment Act (ARRA) for transit projects to help sustain the economy, but this funding is temporary.

¹ NTD Historical Data File TS2.1, available at <http://www.ntdprogram.gov/ntdprogram/data.htm> accessed 10/22/09.) This information does not reflect any ridership variations based on recent statewide increased unemployment, furloughs and service reductions."

Statewide Transit Strategic Plan

To help the State better support public transportation, Caltrans is developing the Statewide Transit Strategic Plan (STSP). This effort, through coordination and collaboration with stakeholders, will provide the platform for Caltrans to understand common transit issues and identify solutions to reduce barriers. By recognizing how transit fits into the overall theme of integrating mobility choices into the transportation planning system operation, this plan will enhance Caltrans' transportation planning on a statewide level. The work will lead to the development of an action plan that enables Caltrans to facilitate the delivery of public transit services on the State highway system. The STSP will help California gain a better understanding of its present and future roles and responsibilities for public transportation — serving as the collective vision for California's future transit system.

INTERCITY BUS SERVICE IN CALIFORNIA



Legend

- Intercity Stops
- ≡ Passenger Railroad
- Greyhound Lines
- Amtrak Thruway Bus
- Americanos USA
- CA Shuttle Bus
- Lux Bus America
- Megabus
- Mt. Lassen Motor Transit
- Orange Belt Stages
- Transportes Intercalifornias
- USAsia Bus
- Other Connecting Regional Services
- 5311(f) Routes
- Urban Areas



Statewide Programs



fact sheets

- Regional Blueprint Plan
- Smart Mobility Framework
- Complete Streets
- Caltrans Essential Habitat Connectivity
- Caltrans Climate Action Program (Mitigation and Adaptation)



California Regional Blueprint Planning Program

The California Regional Blueprint Program is a vital source of planning funding for regions throughout the State of California. A total of twenty million dollars in federal transportation planning funds has been awarded by the California Department of Transportation (Caltrans) since the program was initiated in 2005. In 2009, five million dollars was granted to nine Metropolitan Planning Organizations (MPOs) and nine rural Regional Transportation Planning Agencies (RTPAs) to support transportation planning activities across California. Since the genesis of the Program, seventeen MPOs and thirteen rural RTPAs have participated in Blueprint-related planning activities. An additional \$1 million is being made available to rural RTPAs in 2009/2010, and new first-time applicants are anticipated.

Regional Blueprint grants help MPOs and rural RTPAs engage in public outreach to select a community-preferred vision of what the region should look like in the future. The resulting Regional Blueprints help communities to preserve what they value and identify ways to move toward what they want to become. The Program helps MPOs and rural RTPAs to improve their modeling capacity, enhancing their ability to perform integrated transportation/land use planning. The funds support regions' outreach to local elected officials, supplying data that informs them about ways to reduce greenhouse gas emissions and plan for infrastructure investments within their communities. Regional Blueprints encourage them to consider a regional context as they exercise their authority to make local land use decisions.

Through Regional Blueprints, regional transportation planning agencies attempt to balance transportation planning with land use planning, housing needs, resource protection and other planning issues in order to inform decision makers about how to achieve more sustainable regional growth patterns and improve the quality of life within their regions. Regional Blueprints are tools that are contributing to the creation of enduring communities throughout California.

For more information, contact Marilee Mortenson at (916) 653-3758, <marilee_mortenson@dot.ca.gov>, or go to <http://www.calblueprint.ca.gov>.

California Regional Blueprints and Blueprint Related Efforts Through December 2009



Legend

- Participant
- Non-Participant

California Department of Transportation
Division of Transportation Planning
Office of Regional and Interagency Planning
January 2010

0 10 20 40 60 Miles



Smart Mobility Framework

Fact Sheet



What? U.S. Environmental Protection Agency (USEPA) and their consultant team provided initial technical assistance to Caltrans to develop a "Smart Mobility Framework" that will evaluate transportation options available in California's urban, suburban, and rural areas. Caltrans' proposal was one of 6 applications that USEPA approved from 67 applications they received nationally in 2007. The Office of Community Planning (OCP) in the Caltrans Division of Transportation Planning (DOTP) is the sponsor of this effort in collaboration with other state project partners—the Governor's Office of Planning & Research (OPR) and the California Department of Housing & Community Development (HCD).



Why? The "Smart Mobility Framework" will assist with the implementation of multi-modal and sustainable transportation strategies in California, in response to specific state laws and plans. Criteria considered in developing this framework included (but was not limited to): density, design, configuration, connectivity, safety, parking strategies, mixtures of land uses, availability of transit, complete streets (including adequate, integrated bicycle and walking facilities), and open spaces.

How? The first phase of this project used technical assistance provided by USEPA to gather and synthesize data from California, other states, regional agencies, and State Departments of Transportation from across the country. The findings were the basis of a September 2008 USEPA team visit where Caltrans staff and other professionals discussed a definition and California-based themes on Smart Mobility for use in California. The second phase of the project used State Planning & Research funds to develop the specific framework that will assist Caltrans employees in evaluating proposed transportation plans and projects on how well they comply with the principles of Smart Mobility. Future phases of the project will refine the framework so that Caltrans and other agencies can develop effective screening tools based upon this framework to evaluate their plans and projects.

An interdisciplinary technical advisory team (TAC) guided the project and reviewed the initial interim products as well as the workshop materials. Caltrans divisions and districts as well as State, regional, and local agencies and organizations participated in the September 2008 and June 2009 workshops. USEPA, Caltrans, and a consultant team conducted the specific meetings, roundtables, and focused dialogs for the project.

When? The entire project is scheduled for completion by early 2010. Project information and updates can be viewed at <http://www.dot.ca.gov/hq/tpp/offices/ocp/smf.html>.

Products: An action plan has been completed that includes an evaluation framework to guide development of infrastructure consistent with Smart Mobility principles. This guidance on the use of place types and smart mobility performance measures will be available for local and regional agencies as well as for Caltrans.

Contact: Chris Ratekin, Project Manager, at (916) 653-4615 or Chris_Ratekin@dot.ca.gov.



Complete Streets

Integrating the Transportation System

Fact Sheet

What are Complete Streets?

Complete Streets are roadways designed to enable safe access for all legal users. Bicyclists, pedestrians, people using mobility aids, motorists, and transit riders of all ages and abilities must be able to safely use the Complete Street. Complete Streets don't all look the same. A complete Street is planned, designed, operated, and maintained in a way that's appropriate to the function and context of the roadway, whether rural, suburban, or urban. What is adequate on a major arterial is different from what would be needed on a freeway, and what is sufficient in a rural setting (often just a standard shoulder) is much different from an urban one. In fact, there is no design prescription to make a corridor 'complete'. Shoulders, sidewalks, convenient bus stop placement, traffic speed reduction, accessible pedestrian signal timing, and medians can all improve safety and mobility for users.



Image © 2009 Caltrans

A bicyclist gets ready to merge with motorized traffic. Complete street designs incorporate safety features for cyclists as well as pedestrians

What are some of the benefits of Complete Streets?

Making room for all types of travelers on our roadways provides benefits for everyone including:

- Complete Streets contribute to a healthy and active lifestyle. Many people would walk and bike more if they could do so more easily and safely.
- Complete Streets improve traveler safety. By designing roadways with basic elements of complete streets, such as safer bus stop placements and raised medians, we all can travel more safely - including people of all ages and abilities.
- Complete Streets help the environment. Many of our daily vehicle trips are short – 3 miles or less. If some of these trips were made on bicycle or foot we could significantly reduce carbon dioxide emissions and breathe cleaner air.
- Complete Streets reduce congestion. Providing more travel options relieves some of the burden on our overcrowded roadways – everyone can get where they want to go more quickly and efficiently.



Image © 2009 Caltrans

Mid-block crosswalk with a raised island for pedestrian refuge and a visible crosswalk.

What is Caltrans doing about Complete Streets?

In October 2008, Caltrans adopted Deputy Directive DD-64-R1 entitled Complete Streets. This directive included the following policy and provisions:

- Bicycle, pedestrian, and transit travel is facilitated by creating “complete streets” beginning early in system planning and continuing through project delivery and maintenance and operations. Developing a network of “complete streets” requires collaboration among all Department functional units and stakeholders to establish effective partnerships.
- State and federal laws require the Department and local agencies to promote and facilitate increased bicycling and walking. California Vehicle Code (CVC) Sections 21200 – 21212, and Streets and Highways Code Sections 890 – 894.2 identify the rights of bicyclists and pedestrians, and establish legislative intent that people of all ages using all types of mobility devices are able to travel on roads. Bicyclists, pedestrians and non-motorized traffic are permitted on all State facilities, unless prohibited.
- Caltrans will develop an Implementation Action Plan to update and incorporate complete streets provisions into guidance, manuals, and training.

Based upon DD-64-R1, the Department and local agencies have the duty to provide for the safety and mobility needs of all who have legal access to the transportation system.

The implementation of Complete Streets policies represents a strategy which cities, counties, and regional planning agencies can use to help meet the regional greenhouse gas emissions reduction targets established in AB 32 and SB 375.

Visit the [Caltrans Complete Streets](#) web site to read more.

Learn more about Complete Streets:

- [Caltrans Deputy Directive DD-64-R1](#)
A pdf document containing Caltrans' goals towards developing complete streets.
- [Complete the Streets](#)
A coalition of organizations in support of the implementation of complete streets.
- [California Bicycle Coalition](#)
An organization dedicated to improving bicycling conditions in California.
- [Livable Streets](#)
A 'StreetsWiki' entry depicting the elements of complete streets.
- [USA Today](#)
An article regarding an increase in awareness of complete streets nation-wide.

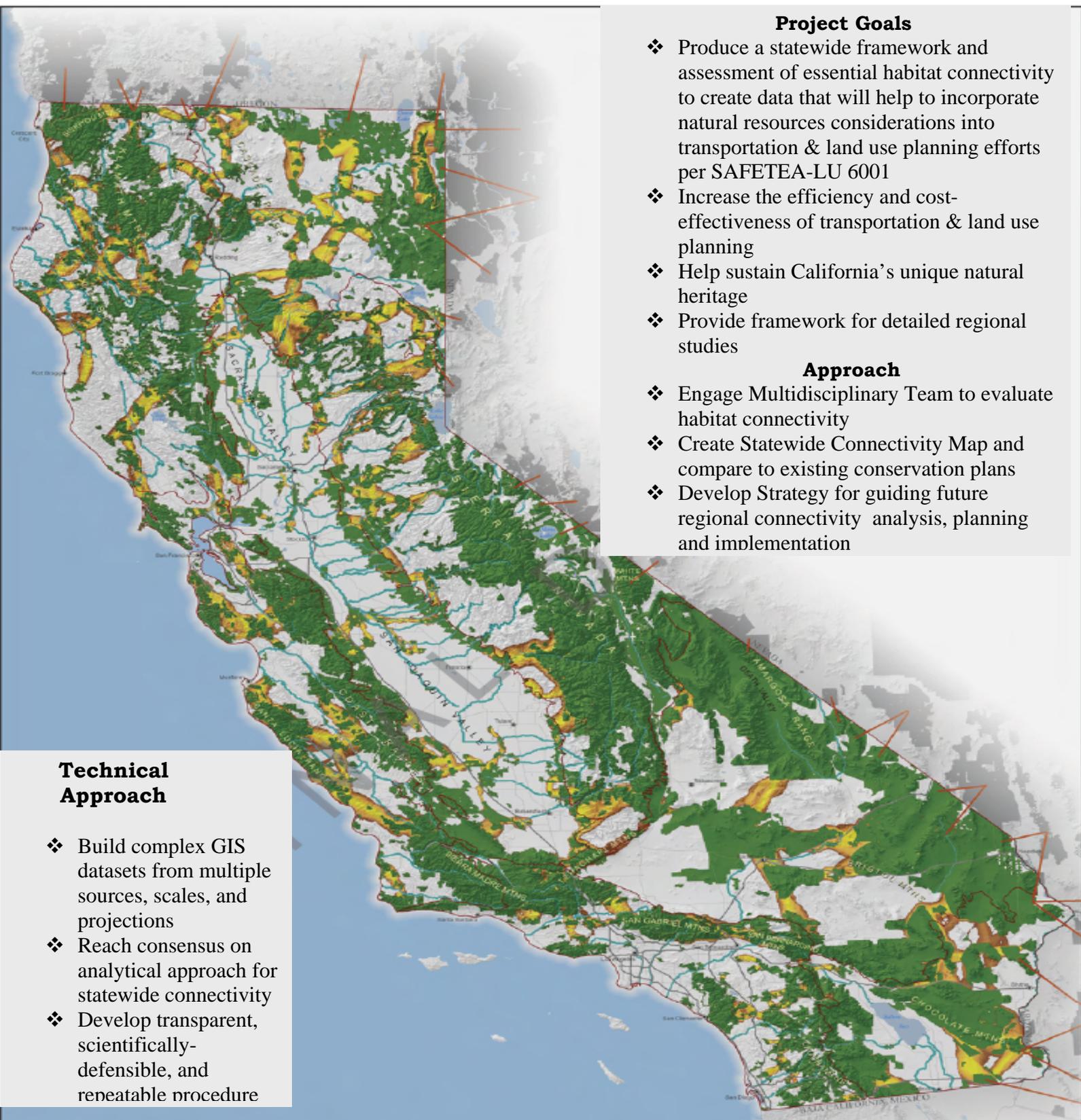


Image © 2009 Caltrans

A bus makes a stop on a road with motorized traffic and light rail train tracks. pedestrian and bicycle access is important here as people walk or ride to public transportation modes.

Contact: Chris Ratekin, Project Manager, at (916) 653-4615 or Chris_Ratekin@dot.ca.gov.

CALIFORNIA ESSENTIAL HABITAT CONNECTIVITY PROJECT



Project Goals

- ❖ Produce a statewide framework and assessment of essential habitat connectivity to create data that will help to incorporate natural resources considerations into transportation & land use planning efforts per SAFETEA-LU 6001
- ❖ Increase the efficiency and cost-effectiveness of transportation & land use planning
- ❖ Help sustain California's unique natural heritage
- ❖ Provide framework for detailed regional studies

Approach

- ❖ Engage Multidisciplinary Team to evaluate habitat connectivity
- ❖ Create Statewide Connectivity Map and compare to existing conservation plans
- ❖ Develop Strategy for guiding future regional connectivity analysis, planning and implementation

Technical Approach

- ❖ Build complex GIS datasets from multiple sources, scales, and projections
- ❖ Reach consensus on analytical approach for statewide connectivity
- ❖ Develop transparent, scientifically-defensible, and repeatable procedure

Project Website and Contacts

www.dot.ca.gov/hq/env/bio/program_efforts.htm

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Draft Map





Mitigation

What? The Climate Action Program at Caltrans promotes clean and energy efficient transportation, coordinates climate activities and provides guidance for mainstreaming climate issues into its business operations. The intent is to lower the impact from transportation and contribute to the State’s greenhouse gas (GHG) emission reduction targets.

Why? The California Global Warming Solutions Act of 2006 (AB-32) codifies the greenhouse gas emission reductions targets and require state agencies to devise and implement programs within their jurisdiction to achieve emissions reductions targets set forth by this law. Caltrans is committed to continuously monitor and evaluate transportation plans, projects, and strategies in the context of greenhouse gas emissions and take measures to advance California’s Climate objectives.

How? Caltrans’ Climate Action Report, December 2006, outlines transportation strategies that are contributing to reducing the state’s GHG emission reduction levels by 2020. The overall approach is to: a) reduce congestion and improve efficiency of transportation systems through the Governor’s Strategic Growth Plan; and b) institutionalize energy efficiency and GHG emission reduction measures into planning, project development, operations, and maintenance of transportation facilities, fleets, buildings, and equipment.

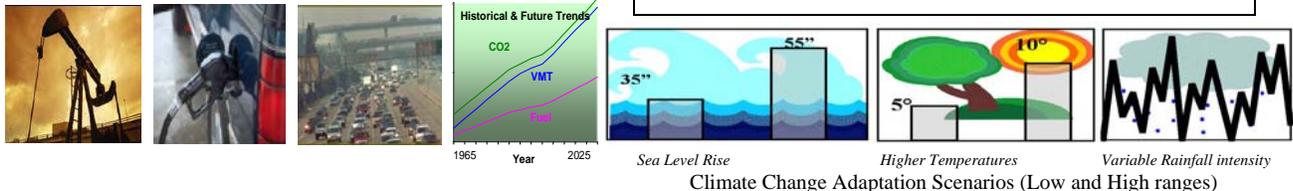
Contact: Garth Hopkins, Chief
Office of Regional & Interregional Planning
(916) 654-8175, Garth_Hopkins@dot.ca.gov

Adaptation

What? In concert with mitigation efforts, Caltrans has undertaken the complicated task of developing California’s first comprehensive climate adaptation strategy for transportation infrastructure. A new priority in the climate change arena, adaptation promises to offer solutions to climate impacts as a result of past and current emissions. Consequently, our efforts to adapt to expected climate change impacts through careful planning and preparation must occur in parallel to ongoing mitigation efforts.

Why? The projected climate scenarios, from rising sea levels and temperature to changes in variability of precipitation, could pose real challenges to transportation infrastructure with potentially significant social and economical impacts. Billions of dollars in state funding are spent annually to improve and maintain our transportation infrastructure. According to Governor’s Executive Order S-13-08, “California must begin now to adapt and build our resiliency to coming climate changes”. Hence, strategies are required to address the risks to our transportation investments. These risks may be manageable depending on how well Caltrans is prepared for climate variations and a degree to which climate change consideration enters into Caltrans’ planning, design, construction, operations, and maintenance.

How? Caltrans’ Vulnerability of Transportation Systems to Sea Level Rise report, February 2009, provides a preliminary assessment of how vulnerable our transportation infrastructure is to rising sea levels. Caltrans is in the process of developing a more comprehensive adaptation report that will include: a) other anticipated climate variations (increases in temperature & precipitation); b) program-specific adaptation strategies; and c) a process to integrate consideration of climate variations into State transportation investment decision-making.



Vulnerable Infrastructure

Sea Level Rise



*

Coast Highway in Retreat: Highway 1 in San Luis Obispo/ San Simeon - a 3-mile realignment is designed to protect the highway from rapidly eroding bluffs due to rising sea for the next 100 years. Construction is expected to begin in 2013.

Increases in Temperatures



Derailment from warped tracks due to extreme heat. Upward slab movement and shattering at a joint or crack.

Highly Variable Precipitation



Water sheet flow crossing, Highway 190 in Death Valley 2004.



Facility located next to the runoff water course, Klamath flood, Highway 101, 2006.

Draft Narrative



outline & maps

- Executive Summary
- Narrative Outline
- Supporting Maps

California Interregional Blueprint Narrative Executive Summary

Background and Purpose:

The California Interregional Blueprint (CIB) will be completed in two phases. Phase I will focus on assembling data and information from existing State and regional plans to facilitate discussions about interregional and statewide investments and policies that will support sustainable growth in California. Phase II will build on the work from Phase I with the implementation of robust modeling and data programs.

An important element of the first phase of the CIB is a discussion narrative (and supporting maps) that combines the latest available data from State and regional plans on interregional corridors for State highways, intercity and high-speed passenger rail, transit, goods movement and public use airports to provide a qualitative analysis of the current and proposed interregional transportation system. This discussion narrative begins to link regional data at a statewide level to support interagency collaboration that will jointly plan for the future of an integrated California transportation and land use network.

Outcomes:

Analysis

This narrative describes how Blueprints influence transportation systems, creating outcomes that complement the California Transportation Plan's "3 E" objectives for a sustainable statewide transportation system based on a: prosperous economy, quality environment, and social equity. The narrative reviews and compares regional transportation plans from four Metropolitan Planning Organizations (MPOs) and the eight MPOs in the San Joaquin Valley and considers the potential positive effect Blueprint-based strategies could have on performance metrics such as greenhouse gas (GHG) emissions, congestion and multimodal access. Maps in the narrative show Blueprint-designated planning scenarios, and how Caltrans' planned interregional mobility corridors for State highways, goods movement, and intercity and high-speed passenger rail interface with Blueprint planning trends. By evaluating current and future regional transportation plans through a lens of Blueprint-designated priorities, Caltrans and regional planning partners can further reduce GHG; more effectively preserve open space; reduce congestion while increasing access to goods and services; and more efficiently allocate financial and technical resources.

Converging regional information statewide also allows for better modeling and analysis by identifying gaps in information and allowing for comparative reviews of planning strategies, funding priorities, and performance metrics. The CIB will help identify current and future GHG emissions from transportation and support the California Transportation Plan in more effective multimodal planning, as is required under Senate Bill 391. By considering regional priorities, plans and data in a statewide context, policymakers can better target funds and projects so they connect and enhance existing state and regional strategies.

Engagement

The CIB maps and narrative discussion are the focal points for bringing together regional planning partners around the State to collaboratively craft a shared, progressive future. Regional feedback will frame the final narrative, which will be submitted to the Business, Transportation and Housing Agency in September, 2010. It also will be a cornerstone of the California Transportation Plan 2040 that must be completed in 2015 as required by SB 391.

Next Steps

Phase I data gaps will become Phase II data discovery, and the improved data sets will support modeling tools that will be operational in December, 2012. The Statewide Integrated Interregional Transportation (SIIM), Land Use and Economic Model will allow continued and improved assessments of GHGs, multi-modal travel needs, and land use strategies so that improvements in any region of the state can be translated to improvements throughout the connecting corridors. The SIIM will also provide the ability to propose alternative scenarios for addressing transportation demand in order to improve these outcomes. Finally, land use and transportation planning efforts will have integrated tools to support cohesive practices that are founded on and aligned with regional priorities.

Tables in the CIB Narrative:

- 1) Comparison of SACOG's RTP Performance: 2002 MTP and 2008 MTP Comparison of SACOG's RTP Investments: 2002 MTP and 2008 MTP**
- 2) Metrics for Regional Transportation Plan/Regional Blueprint Plan Comparison**

Maps in the CIB Narrative:

- 1) California Interregional Transportation System - Existing**
- 2) California Interregional Transportation System Gaps with Blueprint Land Use**
- 3) SACOG Regional Blueprint Land Use and Corridor System Map: 2050**

California Interregional Blueprint –Draft Narrative Outline

The following is an outline of the draft California Interregional Blueprint (CIB) Narrative being prepared by UC Davis' Urban Land Use and Transportation Center. In advance of statewide modeling tools now under development, this narrative (or qualitative analysis) provides a preliminary assessment of the relationship between existing interregional system plans and regional transportation and land use vision plans for the 4 largest MPOs and the combined MPOs serving the San Joaquin Valley.

1) Background

- a) Purpose, Goals, and Process Statement of CIB
 - i) Description of California Interregional Blueprint – what it is, what it will do, and how it will be implemented (Phase I and II).
 - ii) Definition of interregional travel (by trips and by how the road functions).
- b) Purpose of Narrative
 - i) Initial qualitative assessment (in advance of statewide modeling tools) of available data to set a baseline.
 - ii) Scope - limited to four largest Metropolitan Planning Organizations (MPOs) (SACOG, MTC, SCAG and SANDAG) and the MPOs representing the San Joaquin Valley (SJV).
 - iii) Remaining MPOs and Regional Transportation Planning Agencies (RTPAs) to be included in further development of CIB as data becomes available.
- c) Policy Context: How SB 45 and recent environmental goals and regional development patterns in California have framed interregional transportation planning.
 - i) Regional Blueprints: Reducing infrastructure expenses and GHG emissions while preserving open space and mobility through more compact development patterns which increase access to goods/services.
- d) Relationship of CIB to current sustainability initiatives and key issues: Climate Change (AB 32, SB 375, and SB 391), Economic Vitality, and Healthy Communities.

2) Potential GHG Reduction from Land Use and Transportation Strategies

- a) Methods
 - i) Literature Review/Empirical Studies
 - ii) Sophisticated Modeling Review (and where modeling is headed in the future)
 - iii) Simple Tool Review
- b) Current Research (provide summary in table)

3) Regional Transportation Plans (RTPs)/ Blueprint Comparisons

- a) Matrix comparing RTPs for 4 largest MPOs and for the 8 MPOs of the San Joaquin Valley (SJV) indicating the extent to which the adopted RTP is based on Blueprint land use assumptions (Appendix A).
- b) Narrative examples where the new direction of Blueprint planning will have a noticeable effect on transportation demand through RTP implementation.

California Interregional Blueprint –Draft Narrative Outline

Table 1: Comparison of SACOG’s RTP Performance: 2002 MTP and 2008 MTP (Source: Sacramento Area Council of Governments)		
Percent Change from 2005 in:	2025 (2002 MTP)	2035 (2008 MTP)
Transit Service Hours	+111%	+283%
Transit Boardings	+98%	+184%
Transit Productivity	+6%	+35%
GHG / Capita	0%	-8%
Weekday VMT / Capita	+1%	-6%
Congested VMT / Capita	+114%	+16%
Commercial Truck VMT	--	-2%
Congested VMT for Commercial Vehicles	--	-36%

Table 2: Comparison of SACOG’s RTP Investments: 2002 MTP and 2008 MTP (Source: Sacramento Area Council of Governments)	
	Percent Change from 2002 to 2008 MTP
Transit Investment	+21%
Bike/Ped Investment	+56%
Smart Growth Programs	+35%
Road Operations & Maintenance	+17%

- c) A comparison of the RTPs for the 4 largest MPOs and the San Joaquin Valley will include the following metrics: See Appendix A for the resulting RTP Matrix.

Table 3: Regional Transportation Plan/Regional Blueprint Plan
RTP Base Year
RTP Horizon Year
RTP Budget
Expected / Adopted
Blueprint Visioning Done Prior to RTP
Blueprint Visioning Details
RTP Scenarios
Adopted RTP Scenario
Regional Land Use Allocation Projections
What Extent is Adopted RTP Based on Blueprint Land Use?
RTP PLACE3S (place types) Scenario-Based?
RTP or Blueprint Performance Metrics
RTP Findings
Fiscally Constrained? Definition?

BLUEPRINT: Base Year Jobs/Household
BLUEPRINT: Horizon Year Jobs/Household
Base Year Jobs/Household
Horizon Year Jobs/Household
Includes Planned or Programmed Focus Routes?
Includes Planned or Programmed Inter-regional Rail corridors?
Includes Planned or Programmed Goods Movement System?

4) New Plan for a New Transportation Era: Three maps with narrative description.

a) **Map 1: California Interregional Transportation System – Existing System** (*Sources: Caltrans Divisions of Transportation Systems Information, Transportation Planning, and Mass Transportation, Cal-Atlas and Calthorpe Associates*)

b) **Map 2: California Interregional Transportation System Gaps with Blueprint Footprint** (*Sources: Caltrans Divisions of Transportation Systems Information and Transportation Planning, Calthorpe Associates and Sacramento Area Council of Governments*)

i) Overall discussion of RTPs and Regional Blueprints and how they will connect to or will influence interregional transportation system demand

ii) Definition of “gaps” or opportunities

iii) Regional Transportation and Blueprint Plans:

(1) Sacramento Area Council of Governments (SACOG)

Map 3: SACOG Regional Blueprint Land Use and Corridor System Map: 2050

(*Sources: Caltrans Divisions of Transportation Systems Information and Transportation Planning, Calthorpe Associates and Sacramento Area Council of Governments*)

Example - Regional scale view with state interregional system plans and regional transportation and land use vision plan. SACOG was selected, as it currently is the only region with a Blueprint-based RTP.

(2) San Diego Association of Governments (SANDAG)

(3) San Joaquin Valley (SJV)

(4) Southern California Association of Governments (SCAG)

(5) Metropolitan Transportation Commission/Association of Bay Area Governments (MTC/ABAG)

5) Narrative Findings and Actions:

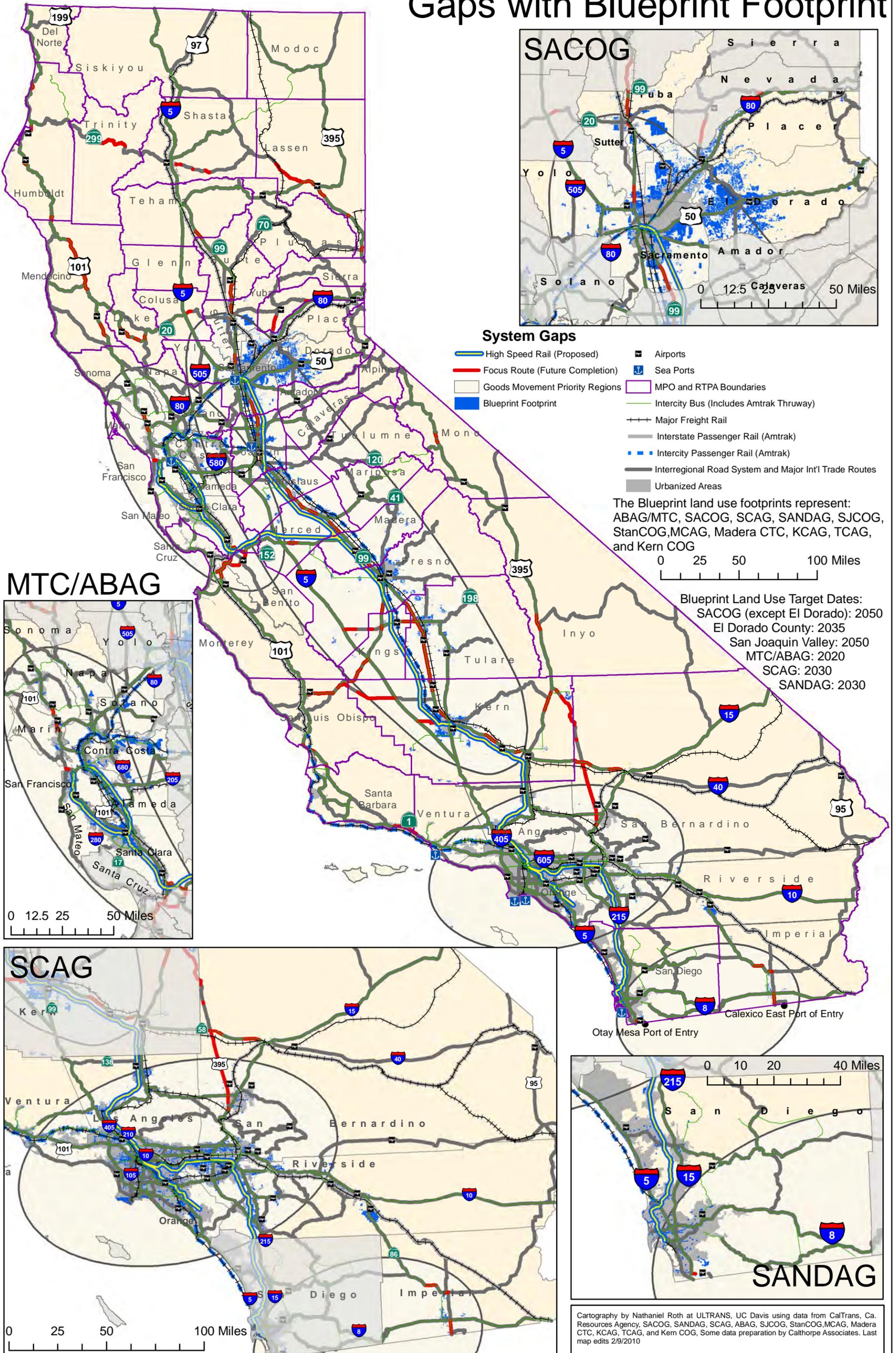
a) Overall discussion of improvements to Caltrans and MPO performance metrics based on the direction of regional Blueprints

b) Specific findings and recommended actions:

California Interregional Blueprint –Draft Narrative Outline

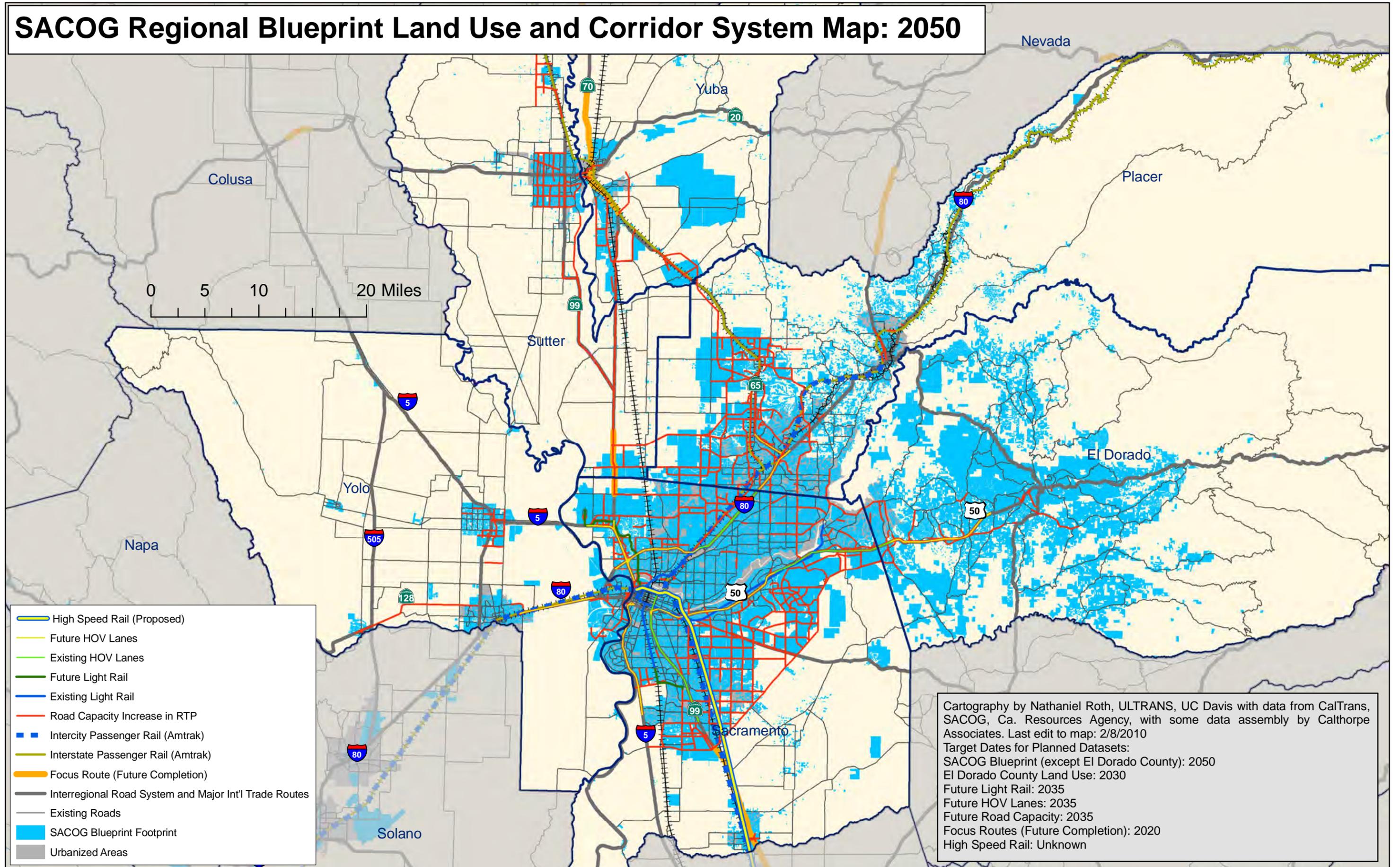
- i) New direction of MPO vision plans will support reduced GHGs – State interregional system plans need analysis to determine impact of GHG
 - (1) Action: Complete Statewide Transportation Demand Model (STDM), Statewide Freight Model (SFM) and the Statewide Integrated Interregional Model (SIIM) to coordinate modal plans and test GHG reduction solutions
 - ii) Interregional travel is impacted by regional actions (both through-trips and origin-destination trips) - interregional plans must be made in light of regional decisions
 - (1) Action: Accelerate support for regional integrated models common data development including the joint California Household Travel Survey and Freight Model
 - iii) Capacity planning differences exist on adjoining roadways at MPO boundaries and model results for interregional trips between adjoining MPOs often do not correspond
 - (1) Action: Complete STDM and a Web Interface Tool for the STDM allowing MPOs to work with each other and Caltrans to find the best solutions to different approaches
- 6) Next Steps:
- a) Collaborate with MPOs and RTPAs to define the process going forward
 - i) Define role of Caltrans HQ and Districts
 - b) Obtain and enhance data for future CIB development
 - i) Obtain regional and land use planning data from all MPOs and RTPAs and continue to develop data on Caltrans system improvements
 - ii) Compile sustainable communities strategies/alternative planning strategies (SCSs/APSs)
 - c) Define critical performance measures for SB 391 compliance (resource: Smart Mobility Framework)
 - d) Develop 2012 SB 391 interim report to the California Transportation Commission and selected Legislative committees
 - i) Collaborate with MPOs/RTPAs on development and content
 - e) Continue to build and enhance models and data

California Interregional Transportation System Gaps with Blueprint Footprint



Cartography by Nathaniel Roth at ULTRANS, UC Davis using data from CalTrans, Ca. Resources Agency, SACOG, SANDAG, SCAG, ABAG, SJCOG, StanCOG, MCAG, Madera CTC, KACAG, TCAG, and Kern COG. Some data preparation by Calthorpe Associates. Last map edits 2/9/2010

SACOG Regional Blueprint Land Use and Corridor System Map: 2050



Statewide Model Framework



The California Department of Transportation (Caltrans) is developing statewide, interregional, and integrated planning efforts supported by a package of tools, data and model development. The objective is a better link between short- and long-range transportation planning informed with critical data and analysis that complements regional planning efforts.

Statewide Interregional Travel Demand Model

The Statewide Interregional Travel Demand Model is a statewide multi-modal travel demand model designed to identify transportation efficiencies (mobility enhancements with environmental responsibility). It will estimate long distance trips between regions. It is intended to provide the analytical framework for assessing transportation system adequacy, long range plan development, systems level project analysis, as well as to provide a statewide spatial analytical framework. The cost of the Statewide Interregional Travel Demand Model is \$1.0 m (funded) with a completion date of September 2010.

Web-based Interface to Statewide Interregional Travel Demand Model

To provide easier access to the Statewide Interregional Travel Demand Model, Caltrans is pursuing the development of an additional web-based interface tool to enable regional agencies to fully utilize

the statewide model. The web-based interface tool will focus on model operations and data management. The cost of the web-based interface tool is estimated at \$ 0.5 m (unfunded) with an estimated completion date of January 2011.

Freight Model

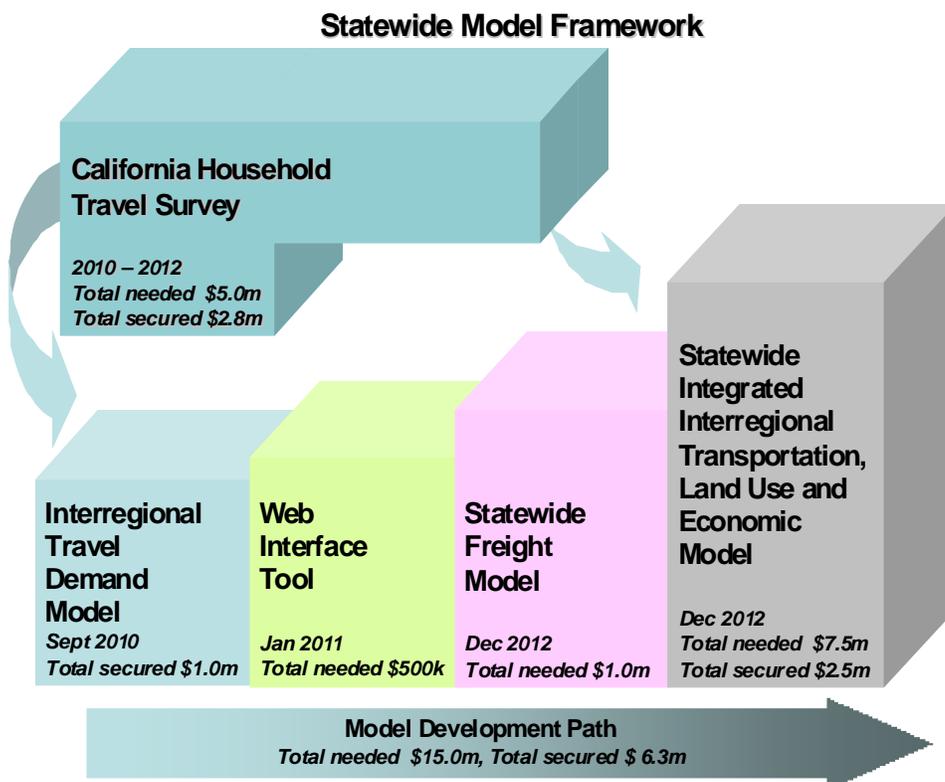
The Caltrans Freight Model is intended help Caltrans and the Air Resources Board better understand freight movement in California and its impacts on highway infrastructure, transportation networks, highway safety, energy use, and emissions. There is a need to develop freight modeling systems capable of evaluating the impacts of infrastructure enhancements and other related projects on traffic congestion, mobility, air quality, emissions analysis, public health, and climate change. The cost of the Freight Model is estimated at \$1.0 m (unfunded) with an estimated completion date of December 2012.

Statewide Integrated Interregional Transportation, Land Use and Economic Model

The Statewide Integrated Interregional Transportation, Land Use and Economic Model will forecast the interaction of transportation system investment and land use development. With this integration of models, Caltrans can better analyze the impacts of policy plans, programs and major investments on transportation, the economy, and the environment at a statewide level. The cost of the Statewide Integrated Interregional Transportation, Land Use and Economic Model is estimated at \$7.5 m (\$5.0 m unfunded) with an estimated completion date of December 2012.

California Household Travel Survey

Regional Travel Models and the Statewide Interregional Travel Demand Model use statewide multi-modal regional and interregional household travel behavior surveys as a base to forecast future travel behavior. With the California Association of Councils of Governments (CalCOG), Caltrans and the regional agencies have organized a Committee to implement the California Household Travel Survey. The cost of the effort, based on \$170 per survey, is estimated at \$5 m (\$2.2 m unfunded). The California Household Travel Survey will take approximately two years to complete.



California Department of Transportation

Background Paper

California Interregional Blueprint

This paper presents an approach for preparing a statewide interregional, multimodal blueprint. The “California Interregional Blueprint” (CIB) will provide the basis for the next update to the California Transportation Plan (CTP 2040) to be completed by 2015. The CIB will analyze the impact of multimodal interregional projects, under consideration in the Department’s and regional agencies’ long-range system and strategic plans, on the transportation system. It also will serve to expand the understanding of the interactions between land use and transportation investments in meeting critical climate goals. The ultimate benefit of this effort will be stronger partnerships, with regional and local agencies and tribal governments, and better data for improved decision making at the State, regional, and local level.

The CIB will aggregate planned interregional highway, transit, rail (including high-speed and intercity rail), intelligent transportation system, goods movement, and other State project concepts and strategies to complement the projects already included in Regional Transportation Plans (RTP) developed by the State’s Metropolitan Planning Organizations (MPO) and Regional Transportation Planning Agencies (RTPA). Information contained in the Interregional Blueprint will be a snapshot of the best planning information available at the time it is prepared.

The CIB will be completed in two phases. Phase I will focus on assembling data and information from existing State and regional plans to facilitate discussions about interregional and statewide investments and policies that will support sustainable growth in California. Phase II will build on the work from Phase I with the implementation of robust modeling and data programs.

During Phase I, project data from existing plans will be compiled and analyzed at a system level. This analysis will consist of a narrative discussion of interregional system gaps, along with preferred regional growth and land use scenarios (with supporting maps). Ultimately, in Phase II, the project concepts and strategies, including growth and land use projections, will be modeled, and their impact on various outcomes will be quantified. One of the outcomes will be a first-ever estimate of the combined impact of these projects and system strategies on greenhouse gas (GHG) emissions. The forecasts of interregional trips (through the delivery of a Statewide Interregional Travel Demand Model in September 2010) and data from the Statewide Household Travel Survey (planned for completion in 2012) will provide critical data to inform the greenhouse gas (GHG) emission reduction dialogue.

Stakeholder workshops are scheduled for the CIB in February, March, and April 2010. These workshops, and other outreach activities, will provide an opportunity to introduce the CIB as well as discuss the concept with the Department’s transportation partners. The workshops will also provide a forum to share data and analysis as it becomes available.

To implement this vision, it is recommended that the following Phase I elements be pursued and the findings incorporated into a document to be submitted to Business, Transportation and Housing Agency (BTH) in September 2010. A roadmap for products described under CIB Phase II will be incorporated into the September 2010 document as recommendations for next steps.

Phase I Elements

1. Provide a baseline for the interregional transportation system by:
 - a. Updating the 10 focus routes in the 1998 Interregional Transportation Strategic Plan (ITSP) by providing a status on each of the project concepts included in that plan.
 - b. Adding planned project concepts and strategies where possible through a narrative synopsis and maps from the following statewide planning documents:
 - Strategic Growth Plan
 - Goods Movement Action Plan
 - Proposed High-Speed Rail Routes
 - High-Occupancy Vehicle/Express Lane Business Plan 2009
 - Ten-Year State Highway Operation and Protection Plan
 - Transportation Management System Master Plan
 - California Statewide Intelligent Transportation System Architecture and System Plan
 - Corridor System Management Plans
 - Transportation Concept Reports
 - California State Rail Plan
 - California BusPool Project
 - California Aviation System Plan
 - Strategic Highway Safety Plan
 - Highway 99 Business Plan
2. Develop an initial CIB narrative (qualitative analysis) as described below.
 - a. Aggregate existing data from adopted RTPs statewide and map approved growth scenarios provided by the regions where possible.
 - b. Aggregate the resulting statewide transportation demand and reveal transportation system gaps, and produce preliminary statewide and interregional performance measures, including those defined in the Smart Mobility Framework, Vision California (High-Speed Rail Authority), Statewide Transit Strategic Plan, ITSP and Assembly Bill (AB) 32 Scoping Plan.

California Interregional Blueprint

3. Consider the following initiatives that support the overall vision of a sustainable transportation system, including among others:
 - Strategic Growth Council Objectives
 - BTH Economic Development Workplan
 - Healthy Communities
 - Regional Blueprint Planning Program
 - Statewide Transit Strategic Plan
 - Bus Rapid Transit (BRT) Handbook
 - Caltrans' Park and Ride Guidance
 - Climate Action Program
 - 2009 California Climate Adaptation Strategy Discussion Draft
 - Smart Mobility Framework
 - Complete Streets
 - Essential Habitat Connectivity Project
 - Park and Ride Program Resource Guide
4. Develop a “roadmap” or work plan for Phase II development of the CIB, including recommendations for next steps.
5. Continue to consult with internal and external partners such as:
 - a. Strategic Growth Council
 - b. The Department’s Planning and Modal Programs and Legal Division (regarding statute prohibiting inclusion of projects)
 - c. BTH
 - d. 109 federally recognized California Tribal Governments
 - e. Regional Caltrans Coordination Group Meeting; Rural Counties Task Force
 - f. California Transportation Commission
 - g. California High-Speed Rail Authority
 - h. Air Resources Board
 - i. California Energy Commission
 - j. Housing and Community Development
 - k. California Transit Association
 - l. California Association for Coordinated Transportation
 - m. Bus Rapid Transit/Transit Advisory Committee
 - n. League of California Cities
 - o. California State Association of Counties
 - p. Regional Council of Rural Counties
 - q. California Department of Water Resources (including at the regional level with Integrated Regional Water Management Plans)
 - r. California Department of Fish and Game

Phase II Elements

1. More robust modeling analysis with the completion of the a statewide modeling framework comprised of: the *Statewide Interregional Travel Demand Model* September 2010; and the *Statewide Freight Model* in December 2012, as well as the *Statewide Integrated Interregional Model (Transportation, Land Use, Economics)* or *SIIM* in December 2012. (See “California Department of Transportation – Model Improvement Plan” for more specifics.)
2. Completion of National Household Travel Survey with add-on data related to bicycling and walking in October 2009 and a Caltrans Statewide Household Travel Survey in January 2012.
3. Completion of the Goods Movement Action Plan II in December 2010 and the subsequent implementation of planned actions.
4. Completion of the Statewide Transit Strategic Plan in August 2011 and the subsequent implementation of planned actions.
5. Development of the Senate Bill (SB) 375 Regional Targets Advisory Committee methodology in September 2009; final GHG targets in September 2010; and RTPs that include sustainable communities strategies (SCS) or alternative planning strategies (APS) to meet those targets by August 2013.
6. Other contributions from: (1) current research and studies that may further refine the CIB; (2) partnerships that evaluate and recommend measures promoting sustainability; and (3) potential contributions from future federal transportation authorizations.

Estimated Cost:

Total cost for the statewide modeling framework that will provide the modeling tools and data needed to produce the Interregional Blueprint is estimated at \$15.0 million of which \$6.3 million has been committed to date. The remaining \$8.7 million in needed funding is proposed to come from a variety of sources, including Department planning funds, grants, foundations, and other federal and State funds. Staffing needs for the effort will be redirected from existing resources.

Outcomes of Projects

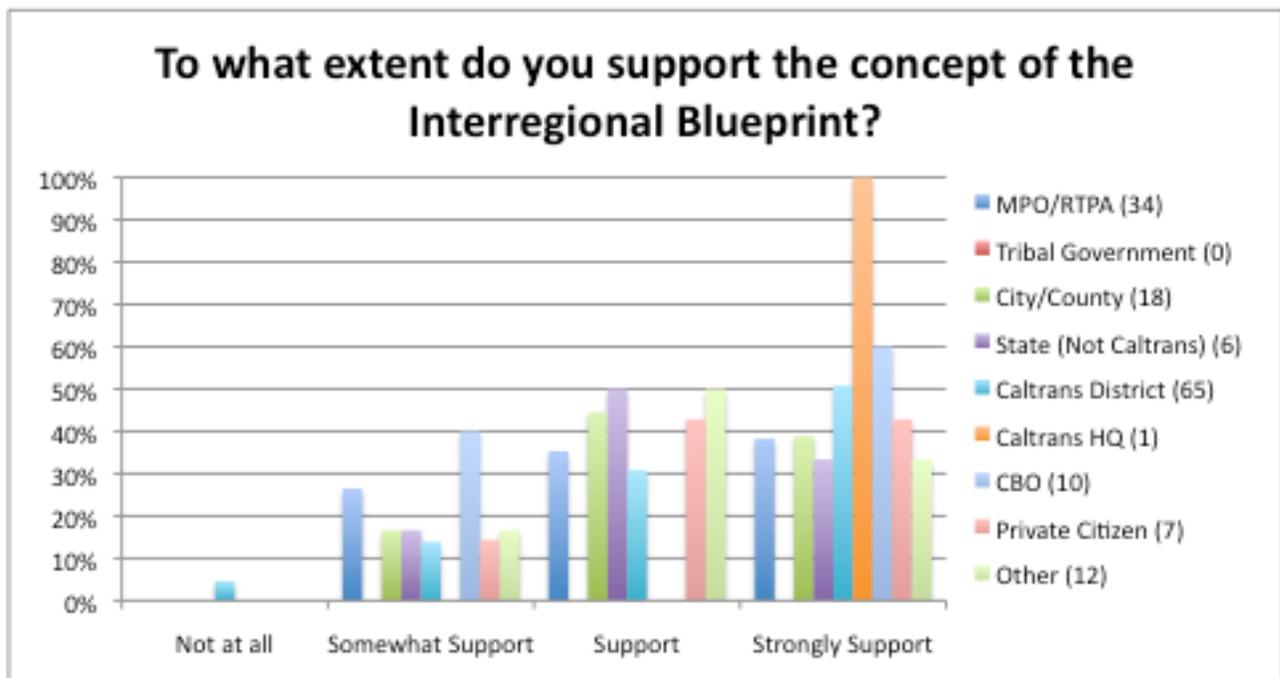
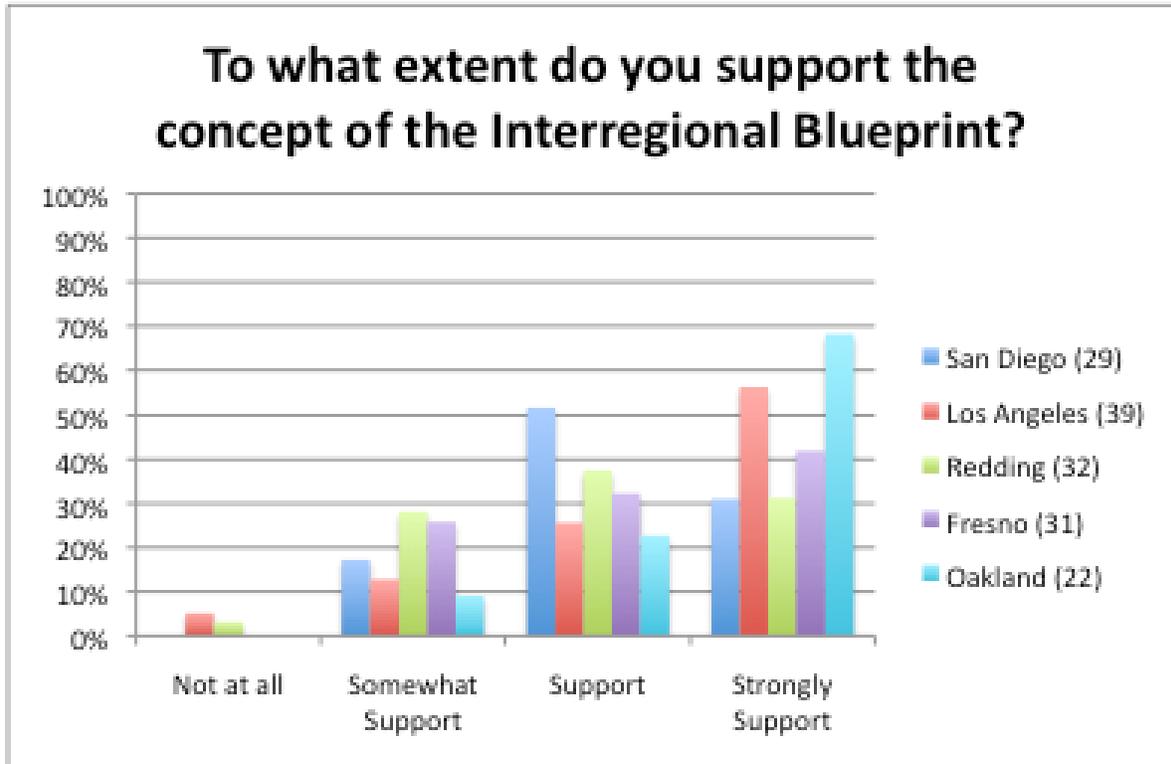
- Provide a multimodal, integrated vision for the State’s interregional transportation system based on data and analysis that will set a baseline of system performance for future planning and project delivery efforts.
- Create an assessment of statewide transportation investment needs to inform future policy and financing discussions and decisions.

California Interregional Blueprint

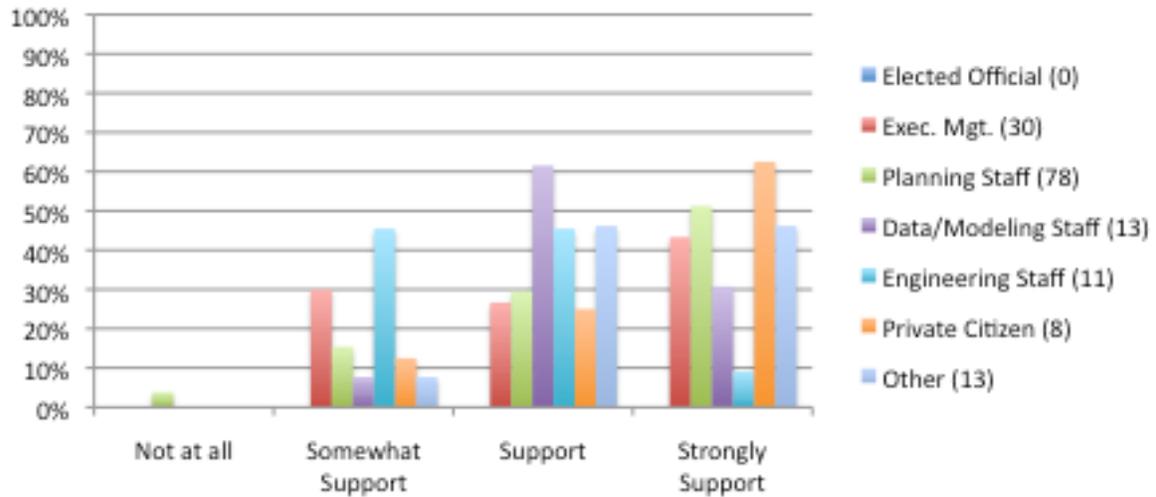
- Promote the importance of a seamless, interregional transportation system and increase productivity of the system by improving linkages to regional and local systems.
- Position the Department to be a statewide and national leader in addressing mobility within the context of climate change, Senate Bill (SB) 375, and proposed federal requirements, including the upcoming federal transportation authorization.
- Respond to recent changes to State law under SB 391 (Liu, Chapter 585, Statutes of 2009) that now require the CTP to identify the statewide, integrated, multimodal transportation system that will achieve the State's climate change goals. It also requires the plan to consider how the sustainable communities strategies/alternative planning strategies being prepared by MPOs under SB 375 would impact the system.
- Provide an initial statewide evaluation of the impact of planned actions by the Department and MPOs to reduce GHG emissions.
- Establish a framework for scenario-based planning at the State level to provide better guidance and information on interregional trips to MPOs and RTPAs in developing their RTPs and regional blueprint plans, and to MPOs in developing their sustainable communities strategies/alternative planning strategies.

interactive polling detailed results

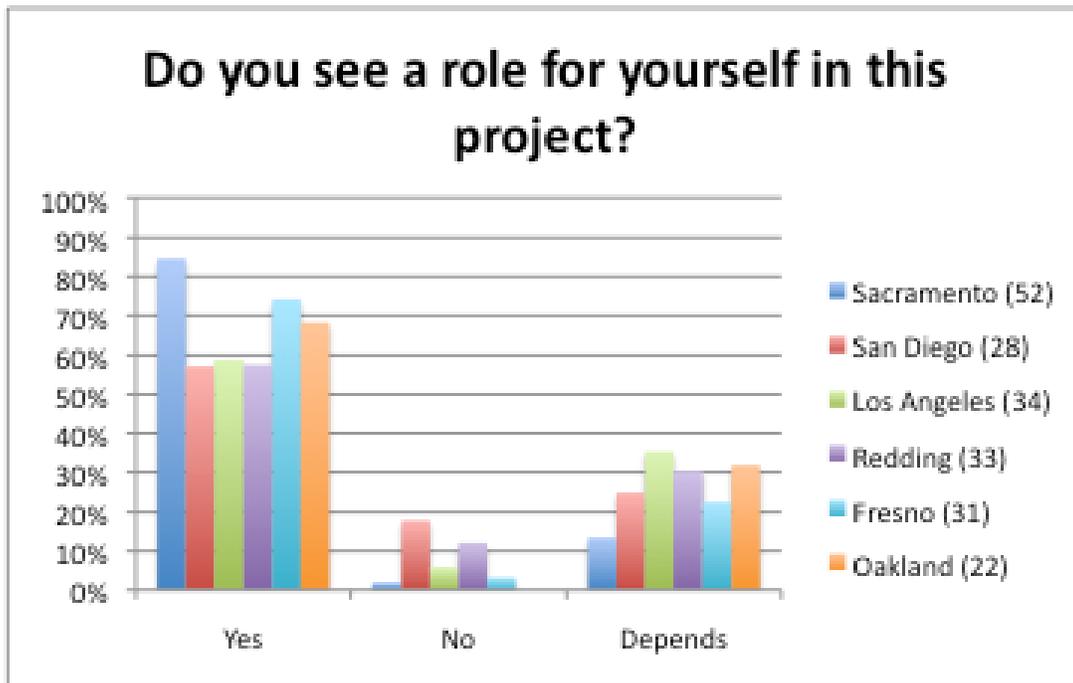
California Interregional Blueprint Highlights



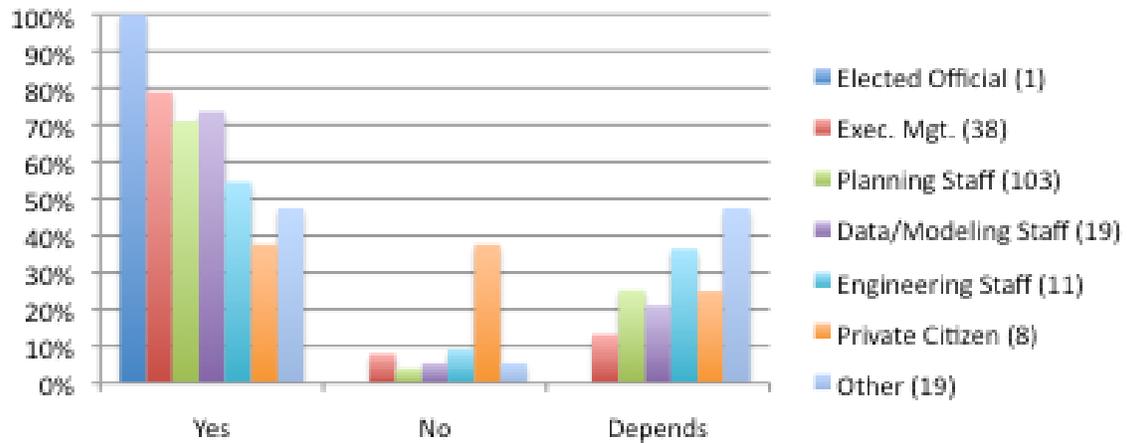
To what extent do you support the concept of the Interregional Blueprint?



Integrating Statewide Plans and Programs

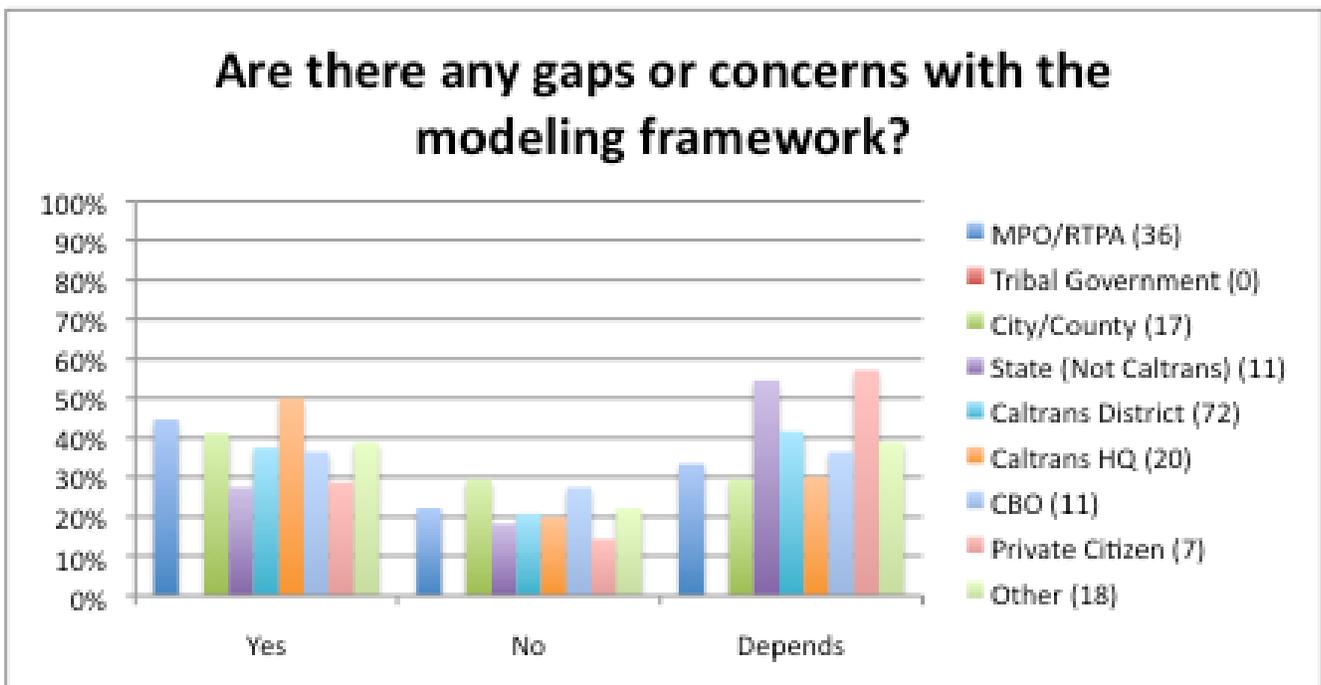
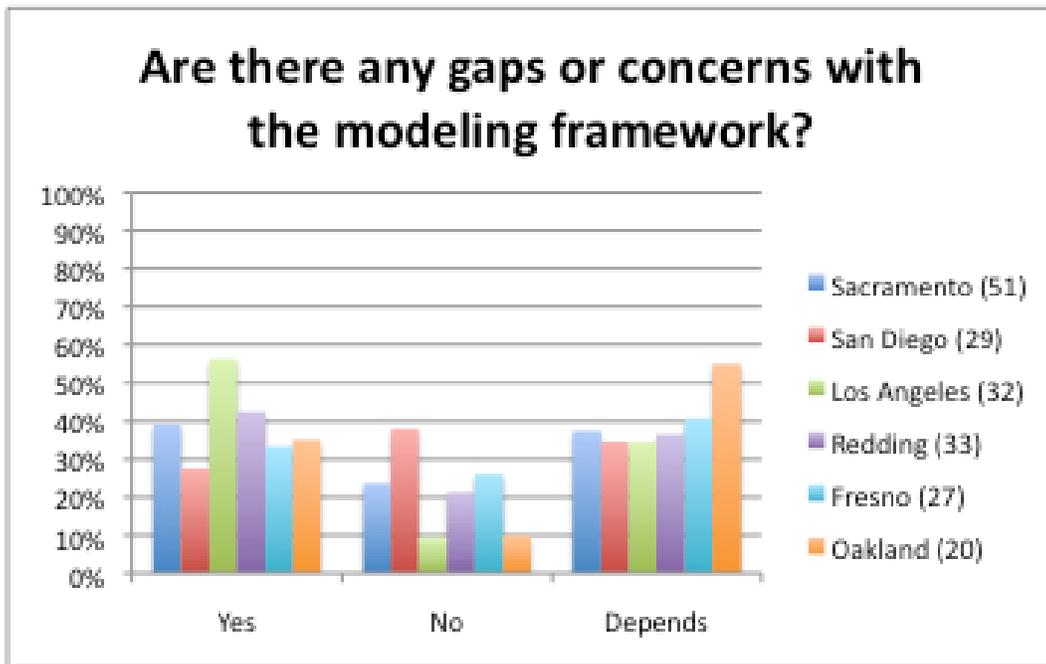


Do you see a role for yourself in this project?

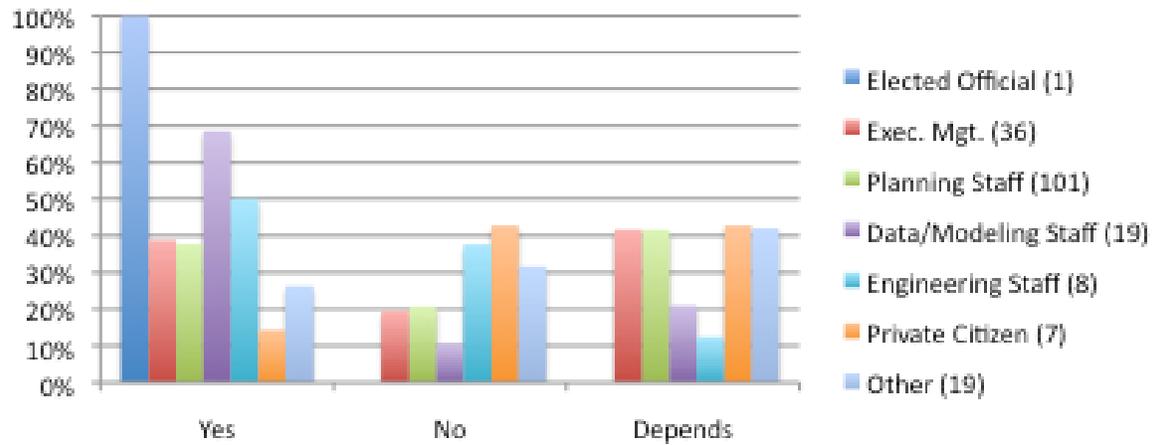


Moving Into a New Transportation Era

1.

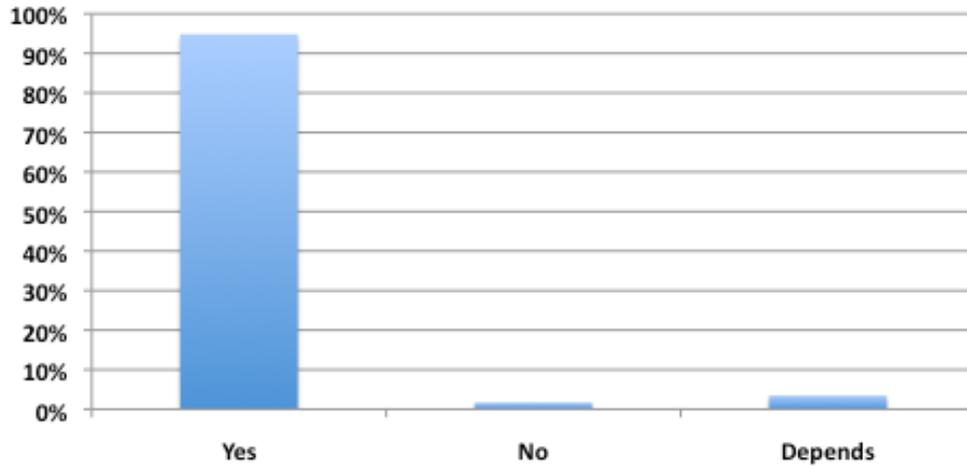


Are there any gaps or concerns with the modeling framework?

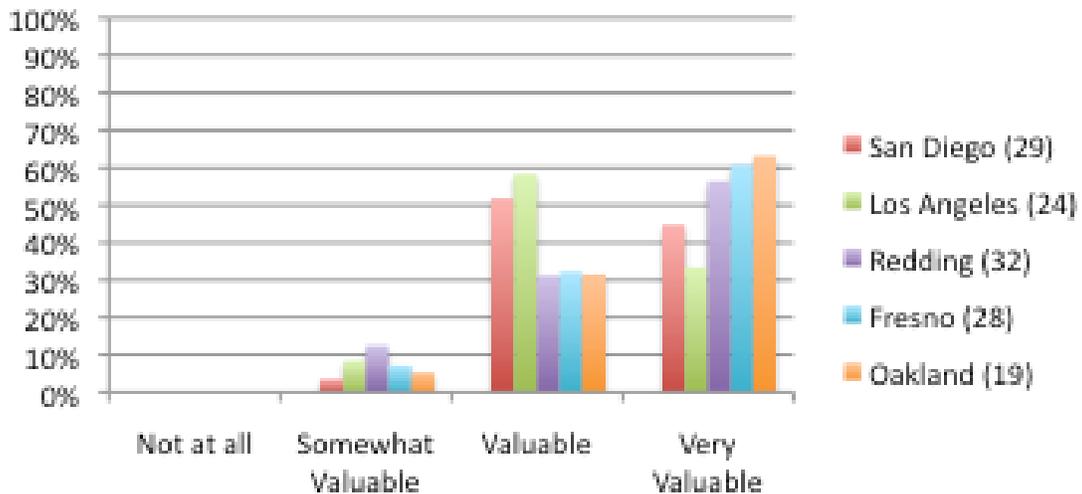


Would it be valuable for your region to have economic forecasts that assess the impacts of proposed State policies/investments on your region?

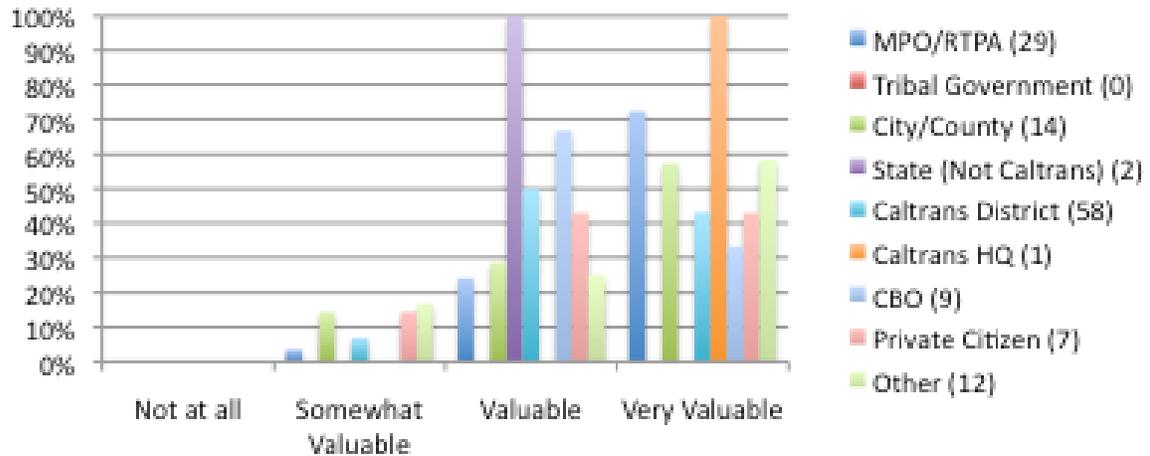
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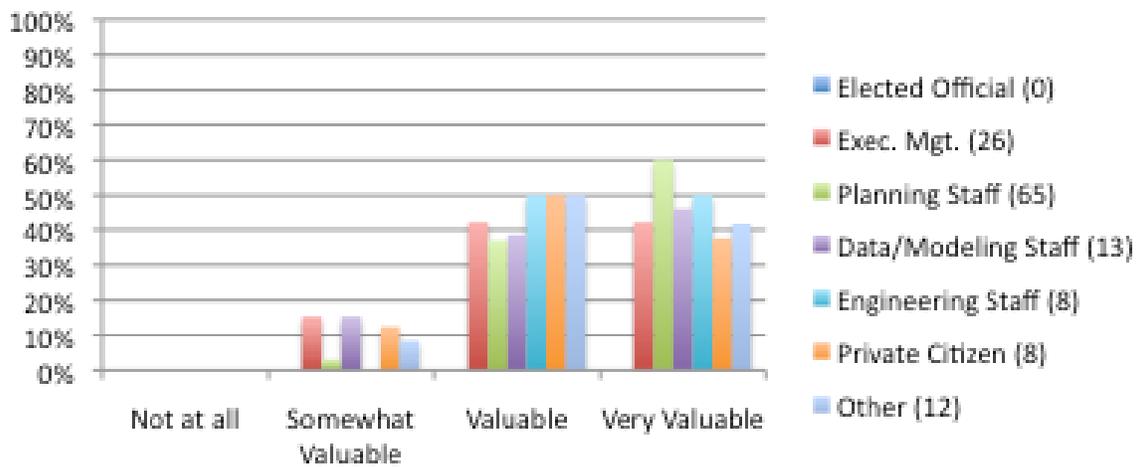
How valuable is it for your region to have economic forecasts that assess the impacts of proposed State policies/investments on your region?



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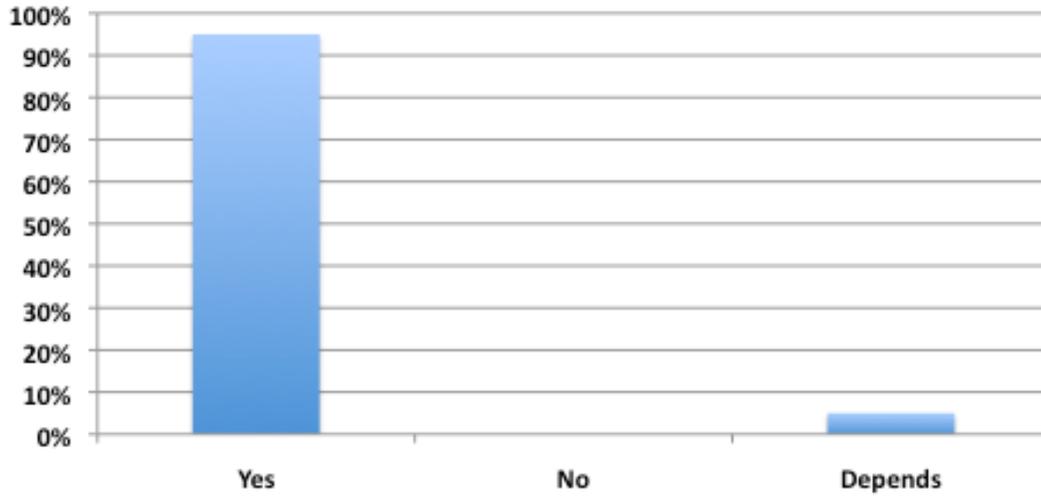


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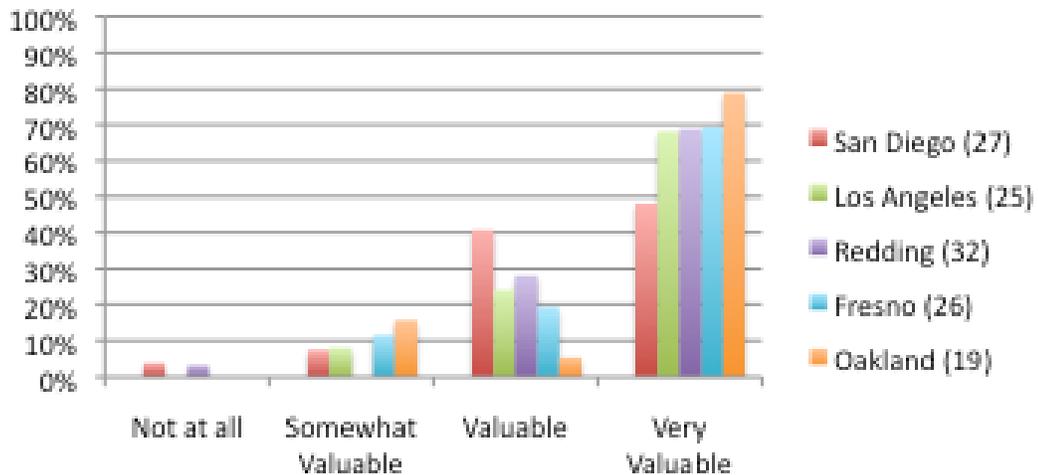


Would it be valuable for your region to have consistent interregional transportation demand forecasts across your region and adjacent regions?

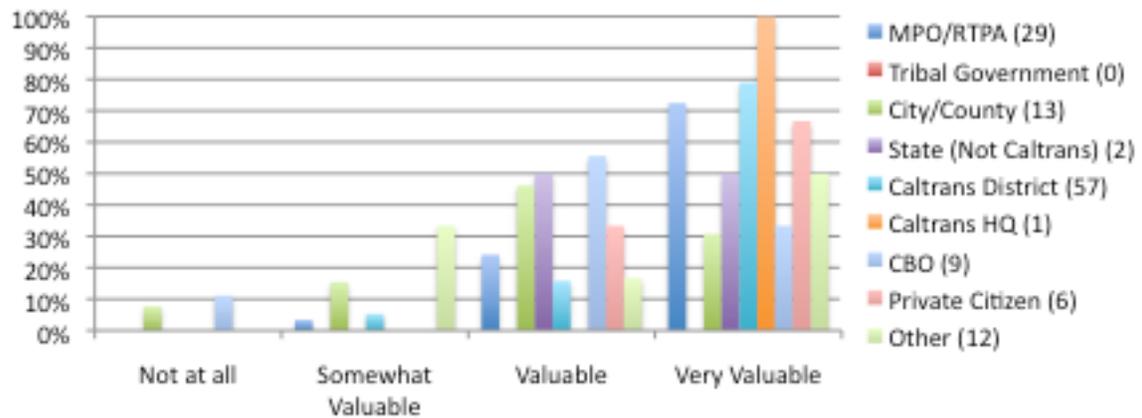
(Sacramento Only: n=60)



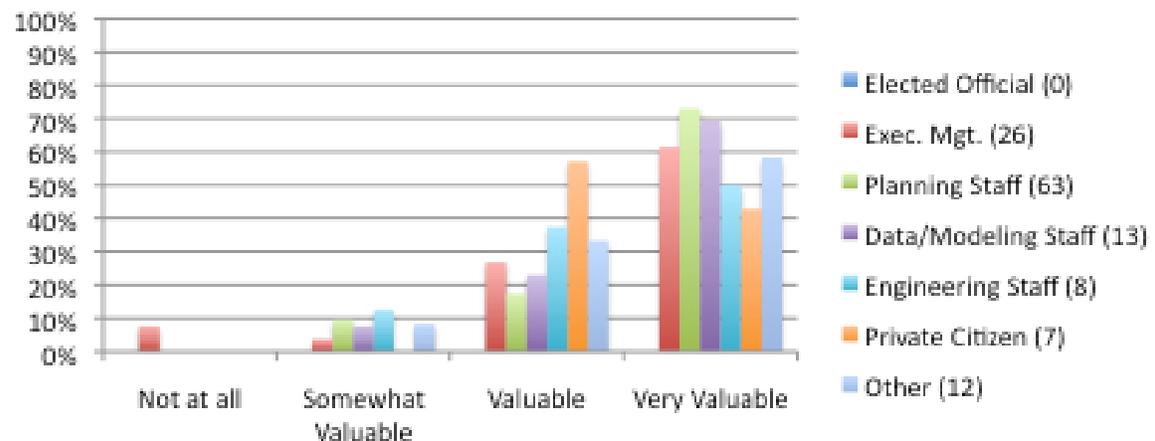
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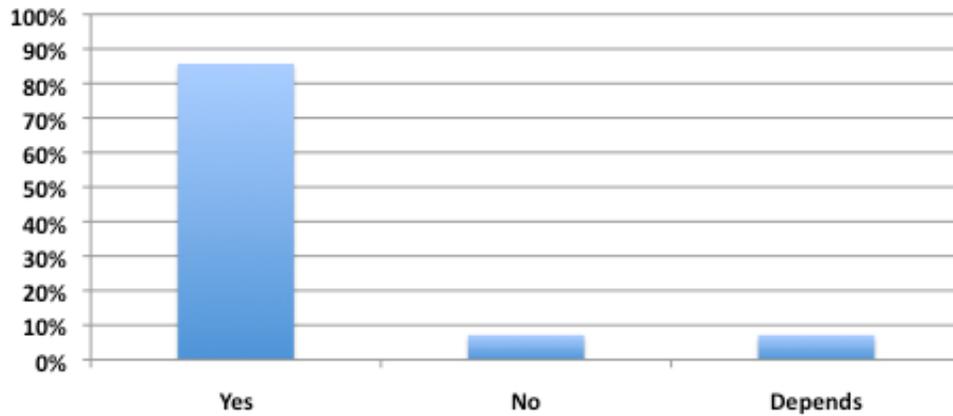


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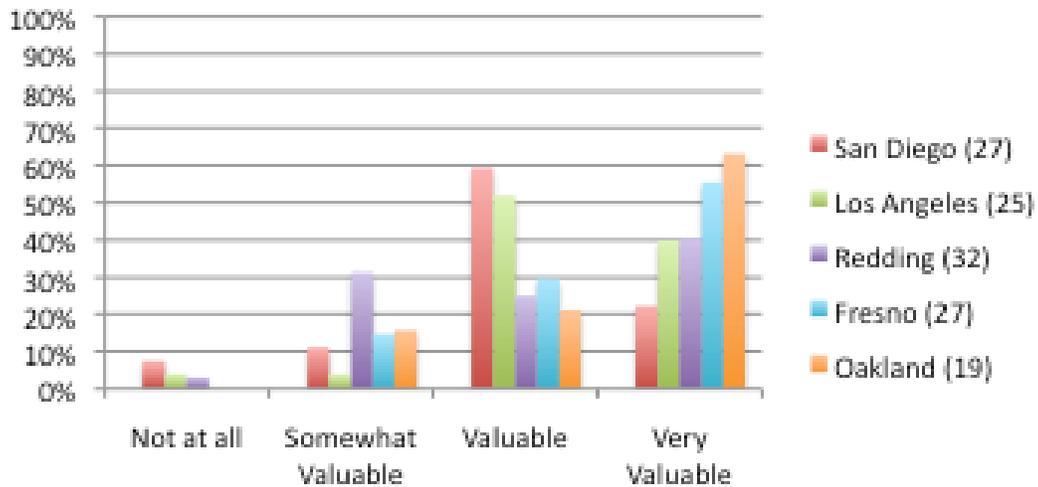


Would it be valuable for your region to have forecasts that assess the impacts of proposed State policies/ investments on households by income class within your region?

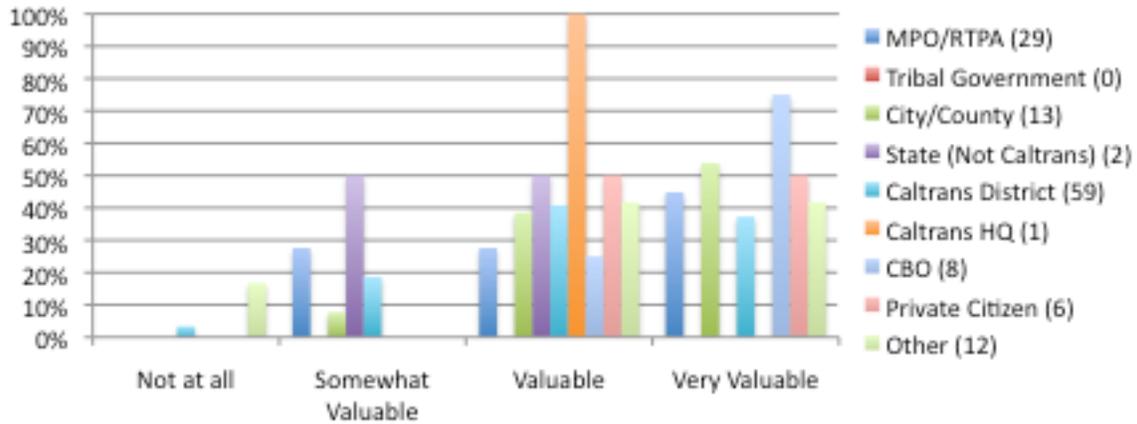
(Sacramento Only: n=56)



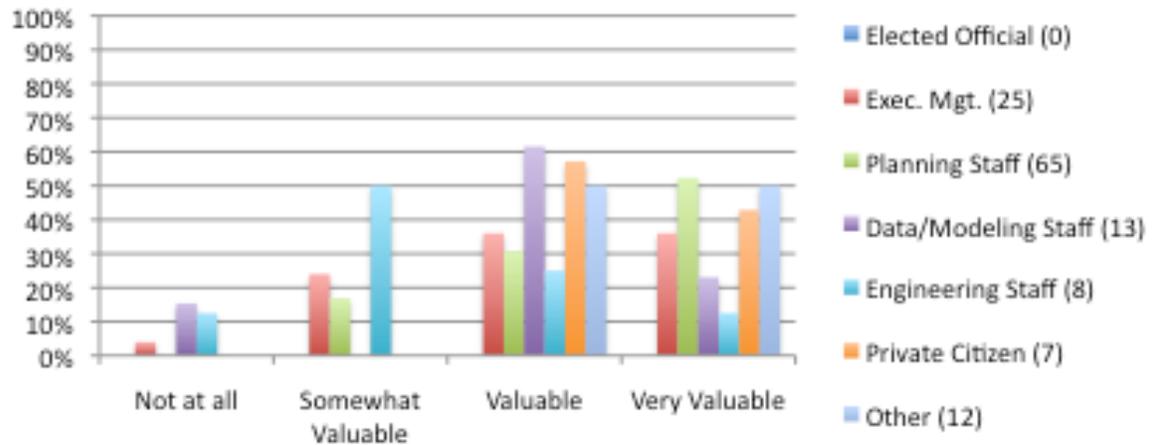
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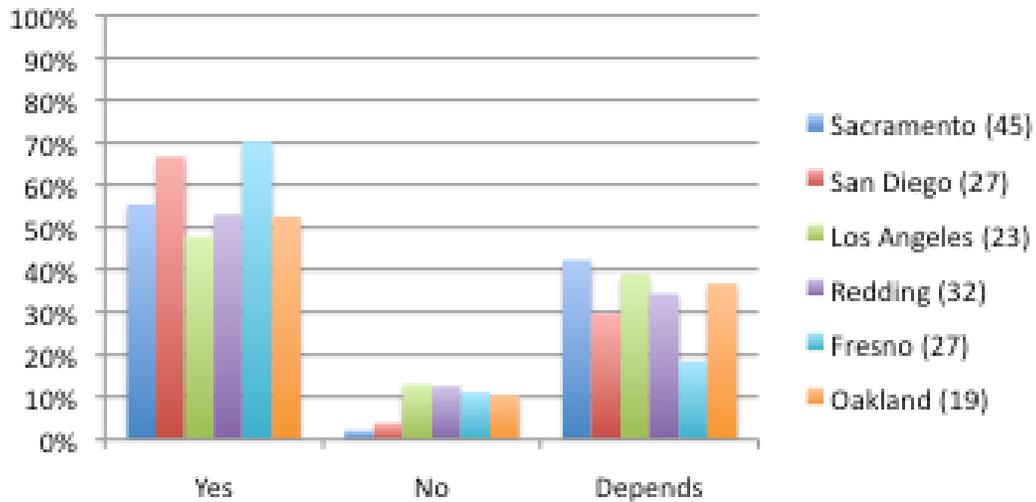
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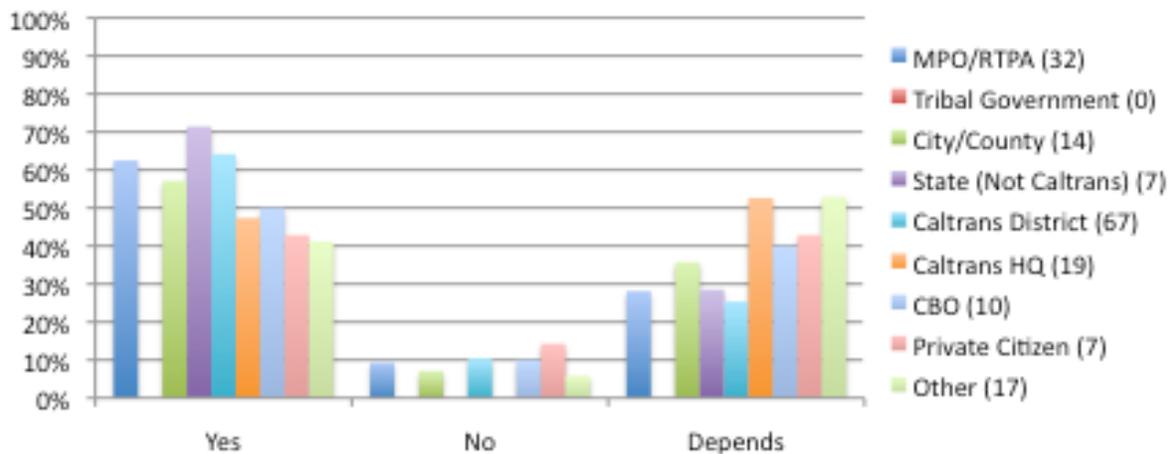
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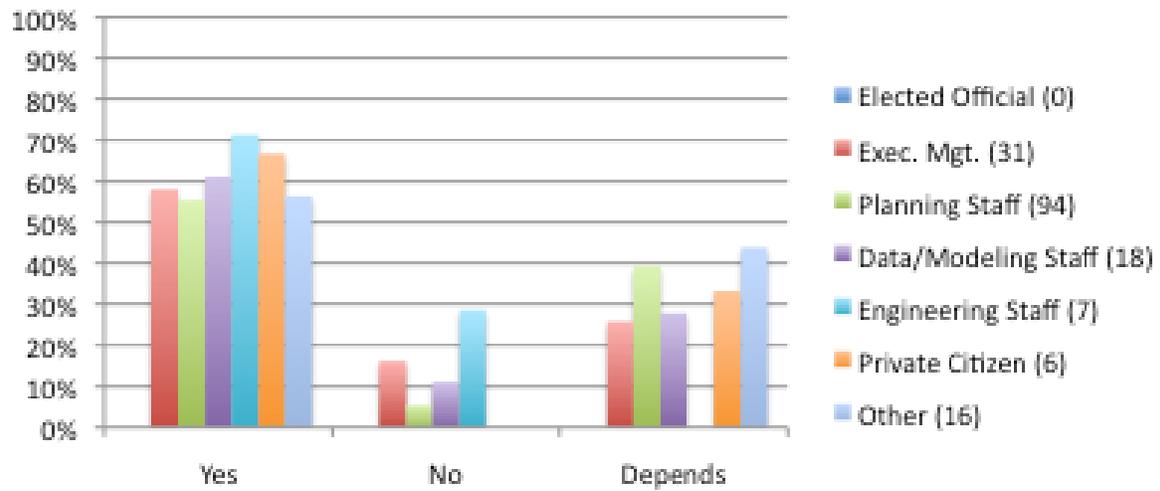
Is the package of tools in line with the leadership you expect/need from Caltrans?



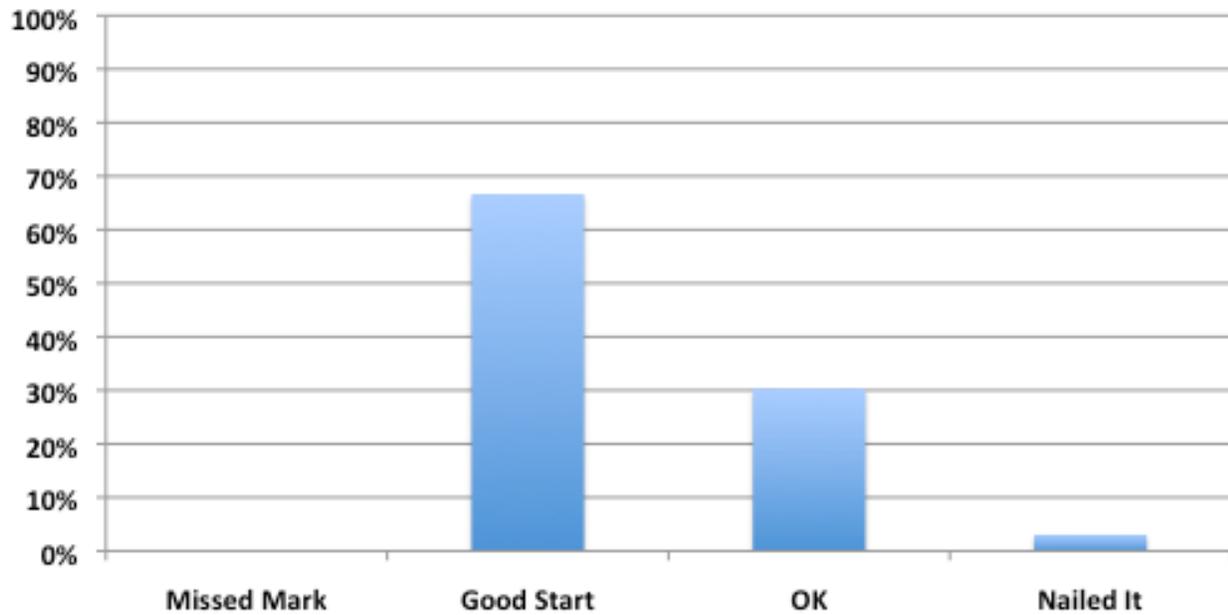
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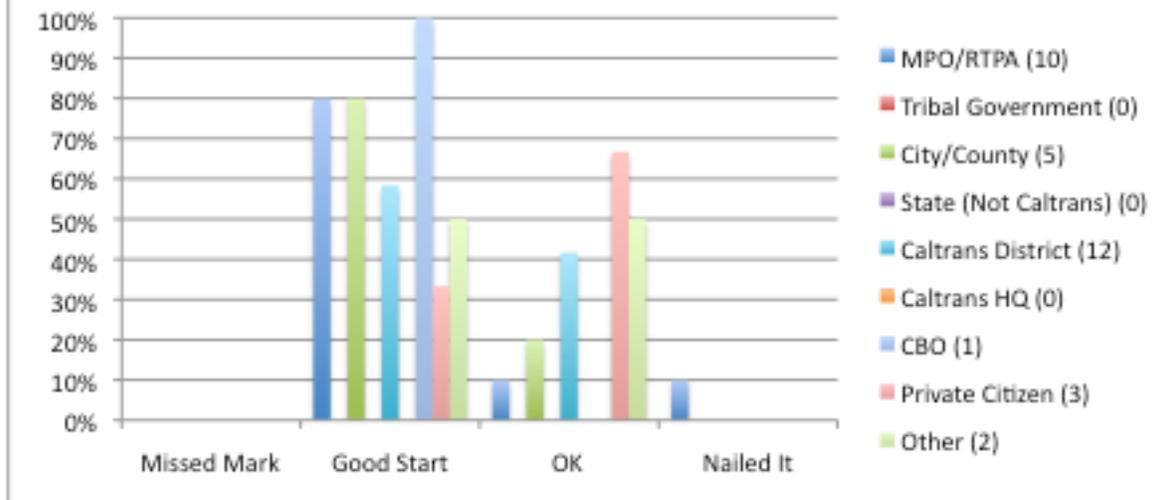
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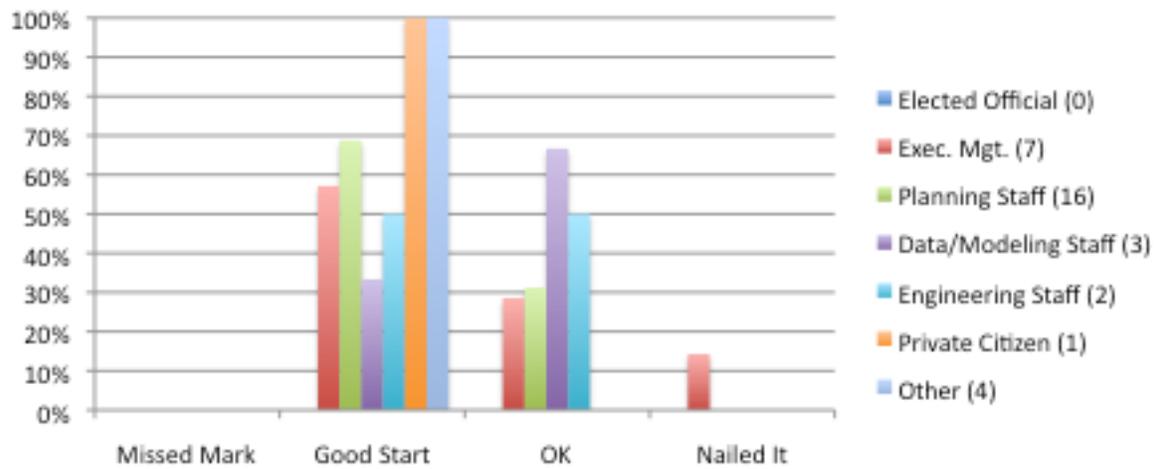
Is this an accurate description of the State's Rural Issues? (Redding Only: n=33)



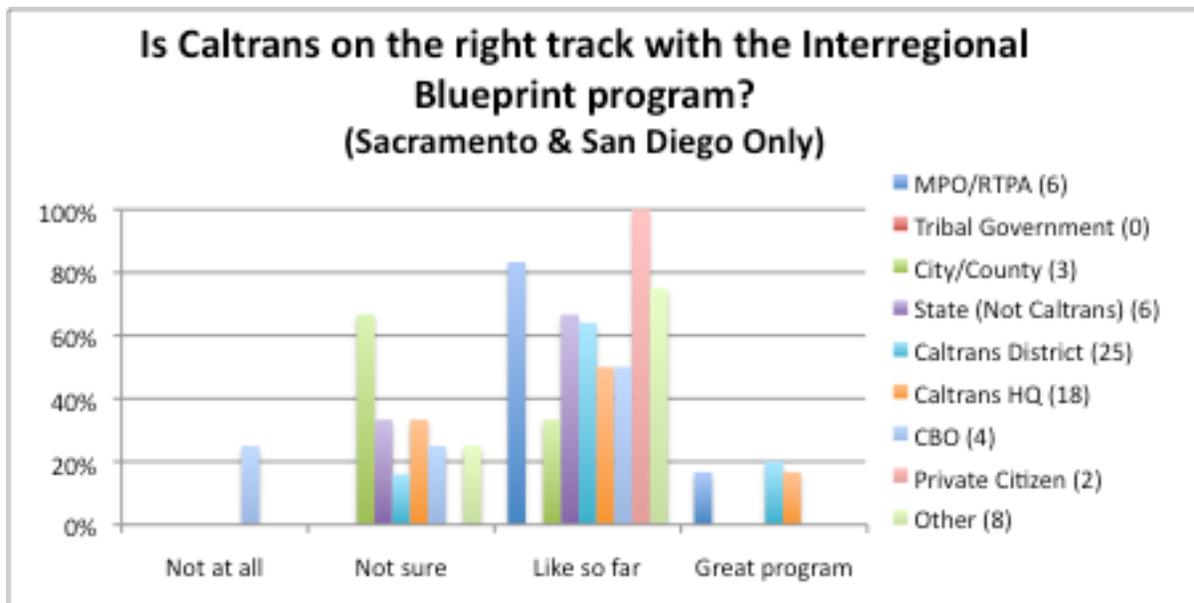
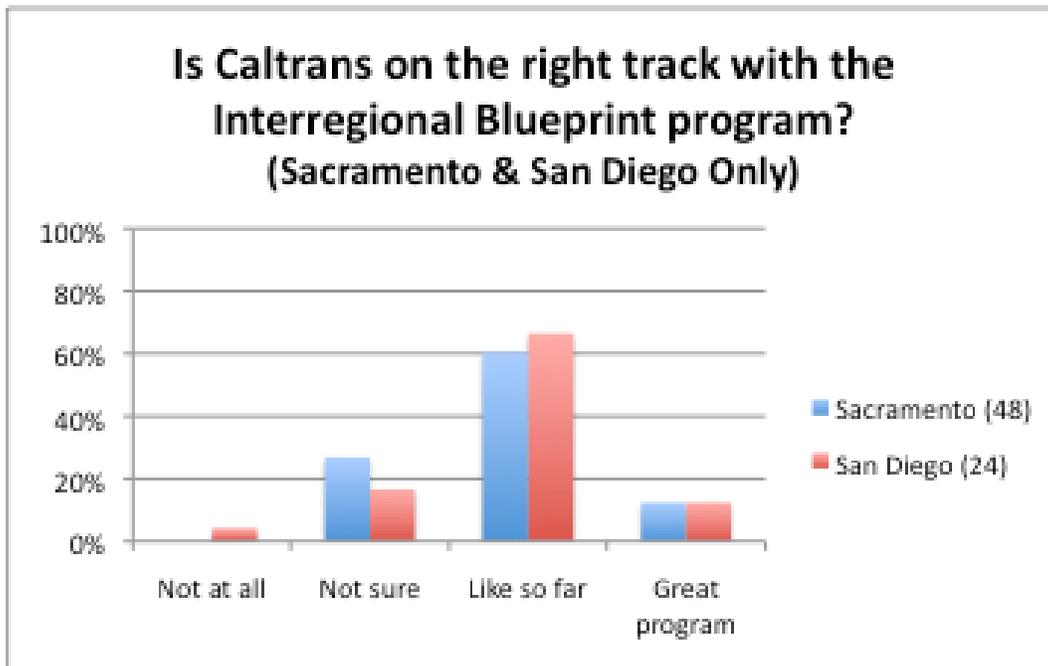
Is this an accurate description of the State's Rural Issues? (Redding Only)



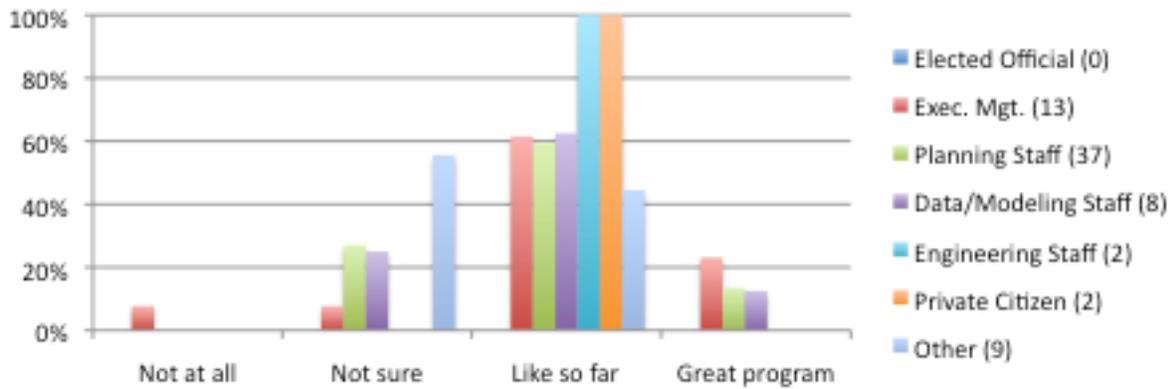
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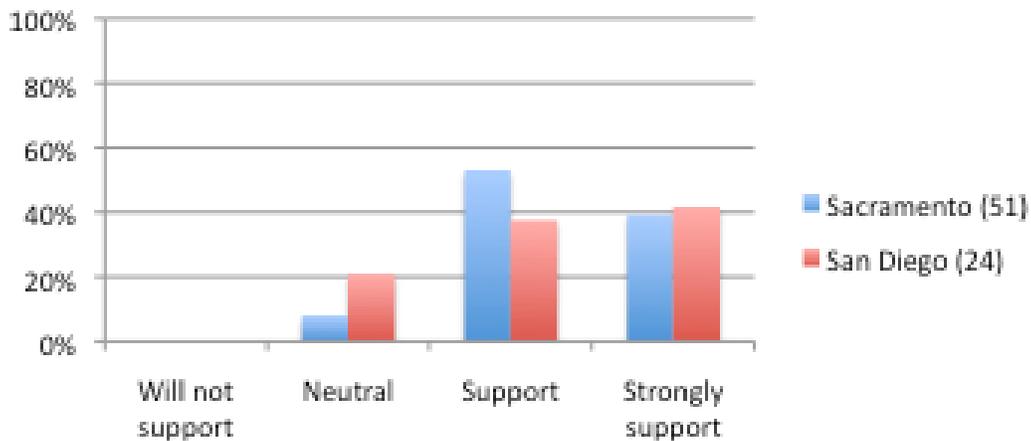
What's Next/Wrap Up



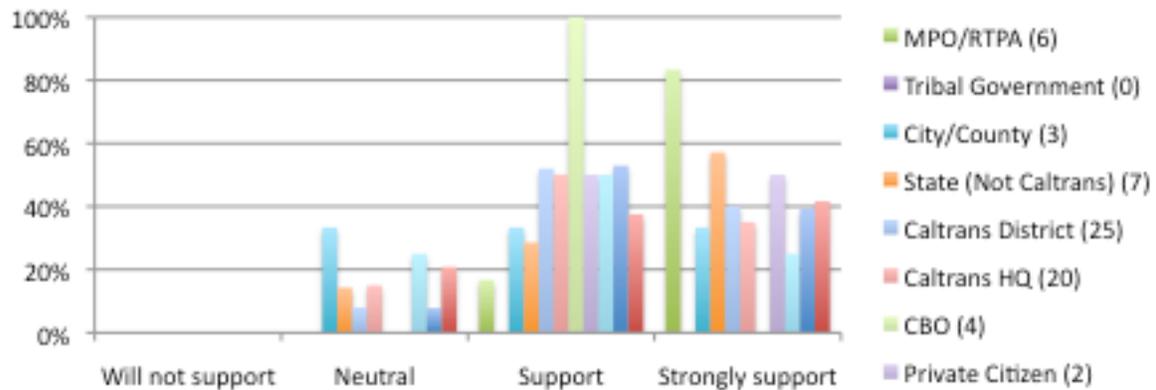
Is Caltrans on the right track with the Interregional Blueprint program? (Sacramento & San Diego Only)



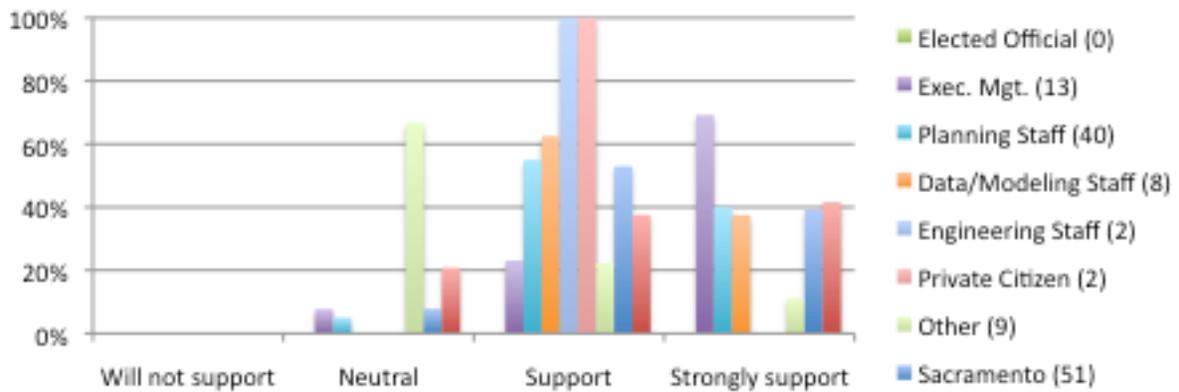
To what extent will you support the Interregional Blueprint Planning effort? (Sacramento & San Diego Only)



To what extent will you support the Interregional Blueprint Planning effort? (Sacramento & San Diego Only)



To what extent will you support the Interregional Blueprint Planning effort? (Sacramento & San Diego Only)



flipchart notes from all workshops

California Interregional Blueprint Workshop February 16, 2010—Sacramento, CA *Summary of Comments*

Are there any fatal flaws?

- Data – correct? Melds?
- Need plan to take down to local and community level
- SHSP (safety plan) not included
- Caltrans could mediate at MPO boundaries
- RTAC learning – more development needed within regions. Caltrans leadership needed here.
- Data often conflicts! How do we reconcile?

What is your role in this project?

- Sharing data and planning info

Do you have concerns with the modeling framework?

- Concerned with rural areas, how they are represented in models
- How do you reconcile regional plans with interregional approach?
- Sea level rise?
- Are different fuel types accounted for?
- “Moving Cooler” report being used?
- Can model do scenario planning for disasters?
- What role will environmental data play? Level of detail? Cost-benefit analysis?
- Current recession real estate value impacts?
- Jobs-housing balance – this model will help understand the statewide costs. New scenarios are needed, based on regional plans.
- Will the statewide model be vetted with regional models?

Are interregional demand forecasts valuable?

- Yes! (clicker vote)
- But the definition of interregional trips is critical
 - Caltrans policy?
 - Who is your partner?
 - Depends on follow-up, if state is committed, for example with funding it

Is the package of tools in line with leadership you expect from Caltrans? (asked about the Household Travel Survey)

- How do you account for ground transportation to airports?
- Will new U.S. Census results be integrated?
- Chart is missing financial constraint
- What is the criterion of success?

- Use Internet surveys, focus groups for input
- Want my vote to count! For example, online participants from outlying areas can't participate in this meeting

Is Caltrans on track with Interregional Blueprint?

- Freight/economic modeling – where are the private sector today?
- Need more information

Comments and Questions

- How can we stay engaged?

California Interregional Blueprint Workshop

March 2, 2010—Los Angeles, CA

Summary of Comments

Support for Interregional Blueprint?

- 57% strongly support
- Why?
 - Efficiency
 - Consistency between regions
 - The future generations!
- Why not?
 - Rhetoric? Commitment
 - Additional funding for Blueprint forthcoming?
- Project list development?
- Geodata base structure?
- Region and state: consistency in data critical!

Do you see a role for yourself in project?

- Yes – 57%
- Depends – 34%
- Yes!
 - All of us do!
 - Districts share corridors and services
 - Engage/invite partners to consolidate vision and implement plan
 - Matches our mission
 - Finding the gaps!
 - Combine resources
 - Connection between regional measures and CIB?
 - City involvement key!
 - Strengthening regional transportation
 - Public health—transportation connection: education
 - Design at local level that enforces/supports interregional goals
- Depends
 - If efforts are model-based – who verifies accuracy?
 - District facilitate better communication
 - Demonstration projects help build local-regional connections
 - Role of HOT lanes?
 - SB 375 at state level?
 - How does this work?
 - How does plan protect airports?
 - Consolidated regional plan – how/who to assess goals met?
 - Will state propose new projects to regions?

Gaps or concerns with modeling framework?

- Yes – 57%
 - How to encourage interregional cooperation?
 - Solid economic projections?
 - Transparency in data analysis and modeling key – share data!
 - Social equity and disease burden part of data
 - Analysis?
 - Consider age differentiated groups
 - How will bike/pedestrian be represented in state model?
 - SIIM relation to SB 375 and interregional trips?
 - Would/where toll be integrated in model?
 - How will lack of freight data be dealt with?
 - Consistency in data definition
 - Web interface – disputing D.O.F. forecasts
 - State model – high speed rail to be included as mode choice?
 - Effort underway to bring more funds? Contingency in place?
 - Model too complicated? – less accurate results
 - How to account for atypical trips?
 - Ways to assess/identify areas of potentially high amount of bike/pedestrian activity
 - HH travel survey accuracy?
 - New technology to improve?
 - Model to address/integrate economic impacts of various transit modes (e.g., BRT)
 - How will models compare Air Resources Board standards?

How valuable for your region to have economic forecasts that assess...

- Yes – 90%

Consistent Interregional Forecasts

- Very valuable or valuable – 90%
 - Targets to be integrated in this cycle of planning?

Impacts of state poll on H.H.

- Valuable – 52%
- Very valuable – 37%

Tools from Caltrans in line with needs?

- Yes – 50%
- Depends – 30%
 - Hardware/software support
 - How will models be maintained and updated?
 - Create specs to be shared
 - Need more face-time (real relationships and engagement) to create a successful process and product

California Interregional Blueprint Workshop

March 1, 2010—San Diego, CA

Summary of Comments

Why Support Blueprint?

- Address climate change
- Link the regions
 - i.e., goods movement
- Avoid losing sight of local trips!
- Impact of AB 32 suspension? (potential)
 - Still important!
 - Partnerships are critical!

Integrating Plans

- Assumptions re: aeronautics capacity?
 - F.A.A. data
- Impact gas tax decline?
 - Tracking long range projections
 - Consider models from Netherlands! Technology trends!
- Smart Mobility and Complete Streets
 - Smart Mobility: new data available
 - Complete Streets: new implementation plan
- Addressing local transit needs?
 - Identify local capacities, link to congestion, V.M.T.; new data!

Roles and Links:

- Regional transportation plans: link to state and interregion
- Goods movement in Imperial County
- Consultant support

Modeling

Concerns/Gaps:

- Bike/walk included?
 - In SANDAG model
 - State model less effective
- Technical effects on travel costs?
 - Will be explored
- Pricing: driving, parking assumptions?
 - Many opportunities and strategies
- Need good social and economic data and trends
- Consider new MPO/regional boundaries for trip studies

- Include non-transportation models? (Video-conferencing, etc.)
 - Little data and guidance
- Web-based model accessibility?
 - Plans for agency-level
 - MPO data uploads
 - Shift controls to MPOs
 - Broader access

Economic Forecasts—Public Infrastructure:

- Identify unfunded mandates
 - State role?
- Credible models help to build consensus

Interregional Demand Forecasts:

- Important to San Diego
- Needs to be “right and complete”
 - Integrity in the process

Forecasts: Households with Income and Class

- Assess policy effects
 - e.g., pricing, transit funding
- Pricing can be adjusted to income levels
- Valuable to Imperial County

Tools and Leadership

- Partner agencies (state-level) in related/affected areas
- Need to pursue pricing
 - Potentially one of many solutions

Moving Forward...

- How do NGOs contribute?
 - Monitor; coordinate at local level
 - Expand public involvement when tools are in place
 - Regional transportation plans
- Need strong strategies, including pricing; it’s necessary!
- Model updates?
 - Need maintenance
- Could local control limit interregional improvement?
- Concern: losing “statewide” system perspective
- Impact on project delivery?
 - Planning feeds projects

California Interregional Blueprint Workshop

March 17, 2010—Redding, CA

Summary of Comments

What are the Missing Issues? (Looking at the list of rural issues)

- Impact of recreational traffic on rural roads
- Property rights
- Limited funds
- Pristine environment
- Maintenance
- Emergency services
- Lack of healthcare
- Employment - education

What would it take to support the Interregional Blueprint concept?

- What is the final product? A compilation? Scenarios?
- Concerned about cross-border impacts (e.g. Del Norte County and Oregon)
- Transit connectivity

Why is this an important effort?

- It's the future
- Employment

What would have to change for you to say "yes"?

- Caltrans policy?
- Who is your partner?
- Depends on follow-up, if state is committed, for example with funding it

Other comments?

- Chart is missing financial constraint
- What is the criterion of success?
- Use Internet surveys, focus groups for input
- Want my vote to count! For example, online participants from outlying areas can't participate in this meeting

Gaps or Concens with Modeling Framework

- Sample size in rural area for household travel survey is too small. May need a supplement.
- Weekends? Travel increases on weekends! Holidays too.
- Will the goods movement component consider the value of goods?
- How do RTPAs fit in? (versus MPOs)
- The maps are inaccurate. Locals need to be more involved in the process, making updates to the data
- UCD is exceptional to work with!

- Shasta MPO is improving its model now. How does the timing and funding coordinate with the state's effort?
- SR 199 is not on the maps! It's a key roadway for Del Norte County.

Comments on Tools and Caltrans Leadership

- How will this initiative affect construction of projects?
- Tools are important but how it's presented to decisionmakers is important. It needs to be simple.
- Criteria assessment is important for rural Northern California
- I question the completeness and accuracy of the information

California Interregional Blueprint Workshop

March 22, 2010—Fresno, CA

Summary of Comments

Why is it important to support this Blueprint?

- To get federal funds!
- Can't plan in a vacume
- Got to make changes – greenhouse gases!
- Don't duplicate efforts
- Will it help with interregional and internal state departments coordination?
- Freeways create sprawl – need a balance economically. Farm-to-market roads. Not using assets efficiently.
- Need a multi-modal, holistic perspective!

What do you see as your role in Interregional Blueprint?

- Applying political pressure to try to get it done
- Making sure that local/regional information goes to the State
- Coordinating this region's blueprint activities with others
- Local agencies will have staffing resource issues
- Health needs must be addressed
- It depends – there is the issue of implementation

Gaps or concens with modeling framework

- MPO data consistency? Greenhouse gas measures?
- Water data
- Sampling on Household Travel Survey – should include the entire week, not just weekdays
- Rural California should be oversampled in the survey
- What about interstate trips?
- What about air quality, other than greenhouse gases?
- We have funding constraints – funding is decreasing!
- How are public health concerns handled in modeling?
- What about the jobs/housing balance?

Value of economic forecasts?

- Fresno has developed around the auto. It is very sensitive to changes in gas prices.
- Could put higher gas revenues back into transit, for example could model that scenario
- It's good the state is doing this modeling – smaller agencies can't do it
- Will the model compare the regional impacts of alternative mode investments? For example an 8-lane freeway versus transit?
- Economic forecasts are notoriously unreliable!

Value of economic forecasts?

- Can no longer meet every demand for local facilities (supply). Need to better utilize the supply.

Value of income class forecasts?

- These are input for running the models at the regional level
- Investment equity issues
- To know the impacts on lower income people

California Interregional Blueprint Workshop

April 6, 2010—Oakland, CA

Summary of Comments

Support for Blueprint

- Did you critique 3 state laws?
- Can we move faster and achieve goals earlier?
- Will grassroots leaders be involved in data collection?
- Will this be coordinated with national household travel survey?
- Supports concept – cited examples of dysfunctions
 - High speed rail
 - Funding focused on highways and hot lanes
 - Concerns about HSR modeling
- Concern about use of data – politicians not concerned with data
- Project emphasizes highest capacity mode – need to include local connection (incl. sidewalks)
- Coordination of data processes will be useful
- How does this interact with local zoning and land use planning? Is there enforcement?

Integrating Statewide Plans

- Concerns about HOV lanes and their impact on climate change
- Failure to analyze greenhouse gas impacts
- Need for goals at state level to force change in the RTP
- Caltrans is most important agency to impact greenhouse gas impacts – but it's not happening yet
- Can there be an incentive to use Complete Streets/SMF?
- How will Caltrans control sprawl and include in VMT as plan is completed?
- How will SMF apply to Caltrans oversight projects?
- Will there be discussion of diesel generating vehicles through communities?
- How can California provide leadership through pricing solutions?
- How do plans link to budgeting process?
- How will SMF be implemented?
- Look at people Caltrans has to implement good planning
- Habitat connectivity – need trunk overlay
- Inter-regional transit – framework doesn't help you to get on or off at “stations”
- Key issues are political – not planning. Need to bring in political support to get resolution. Can't be done solely with technical/planning skills.

New Transportation Era

- How will California process better represent bike/ped trips?
- Cycletrack – FSCITA – is Caltrans aware of this effort?
- Activity based model – very data hungry – will Caltrans have enough data?
- Concerns about MPO questioning validity of data – is Caltrans going out in advance?
- Models applied in Latin American countries – request for example
- Are population projections being adjusted in response to economic conditions?

- Timeline – will base case be 2010 or will it be the “do nothing scenario?”

Concerns/Gaps

- Will we have projects where sole purpose is to reduce greenhouse gases?
- Advice – bring “non-believers” on modeling into process
- How do you address influence of politicians on process?
- Exercise is very valuable – highlight best practices of regions with less resources
- Raise bar for modeling
- Can modeling percolate political essence out of it?
- Surprised by competition!