

STAFF REPORT

SUBJECT: FY 2009/10 Overall Work Program Amendment

MEETING DATE: May 20, 2010

AGENDA ITEM: 6E

STAFF CONTACT: Michael Powers

RECOMMENDATION:

Authorize amendment to FY 2009-10 Overall Work Program to incorporate funding from state Strategic Growth Council to upgrade regional travel model.

DISCUSSION:

In September 2009, SBCAG staff submitted an application for grant funding from Prop. 84 bond funds administered by the Governor's Strategic Growth Council. The 2009-10 budget act set aside these Prop 84 funds for regional modeling and data development. The application requested funding to upgrade our data and methods in travel forecasting and land use alternatives analysis. These are two critical areas that need to be strengthened to address the mandates in SB 375. Funds are being made available to all the 18 MPOs in California that are subject to SB 375 since it is recognized that all agencies need to improve their data collection, modeling, and, evaluation capabilities.

On October 13, 2009 The Strategic Growth Council authorized \$400,000 for SBCAG for model improvements, spread out over several years. In October, 2010 your board authorized staff to accept the grant if approved and to enter into an agreement with the state. It has taken the State considerable time to apprise SBCAG of next steps. Now they are requesting MPOs to amend their existing OWP to encumber these funds. The attached OWP amendment to the Travel Demand Forecasting Work Element and SBCAG Funding Source Table responds to this request. The more detailed summary of work tasks reorders work tasks from our prior submission in 2009 to be consistent with their revised schedule.

COMMITTEE REVIEW: None

ATTACHMENTS:

1. Strategic Growth Council, April 30, 2010, Notice of grant award letter
2. Amended SBCAG FY 2009-10 Overall Work Program, Work Element 2050, Travel Demand Forecasting (cost revision only).
3. FY 2009-10 SBCAG Overall Work Program Funding Sources, Revision 2
4. Revised Scope of Work, SBCAG Model Improvement Plan, June 2010 – February 2012

Member Agencies

Buellton ■ Carpinteria ■ Goleta ■ Guadalupe ■ Lompoc ■ Santa Barbara ■ Santa Maria ■ Solvang ■ Santa Barbara County

Strategic Growth Council
Governor's Office of Planning & Research
1400 Tenth Street
Sacramento, CA 95818



April 30, 2010

Mr. Jim Kemp, Executive Director
Santa Barbara County Association of Governments
260 North San Antonio Road, Suite B
Santa Barbara, CA 93110

Dear Mr. Kemp:

On behalf of the Strategic Growth Council (SGC), I am pleased to congratulate the Santa Barbara County Association of Governments (SBCAG) on receiving a Proposition 84 funded Modeling Incentive Award of \$400,000. These funding awards are intended to help improve the modeling capabilities of each metropolitan planning organization (MPO) in California.

These awards are given by the Strategic Growth Council and the funds are administered by the California Natural Resources Agency (CNRA). The CNRA is currently in the process of executing an Interagency Agreement (IA) with the California Department of Transportation (Caltrans). Caltrans will be responsible for administering the modeling incentive funds to the MPOs on a reimbursement basis. The IA is expected to be approved by the Department of General Services within the week. Once the IA between the CNRA and Caltrans is approved, Caltrans staff will immediately inform each MPO to amend their respective fiscal year 2009/10 Overall Work Program (OWP) in order to encumber these funds.

We understand the timeframe to encumber these funds is short. In order for these funds to be encumbered by the end of fiscal year 2009/10, it is very important that each MPO prepare the following:

1. Please be prepared to amend your MPO's fiscal year 2009/10 OWP and submit the Overall Work Program Agreement (OWPA) to your respective Caltrans District representative for processing, once you have been notified by Caltrans to do so.
1. Please provide a current Scope of Work and updated timeline describing due dates and deliverables for your modeling tasks. As you revise your timeline, assume a start date of June 1, 2010, and an end date of February 29, 2012. Please submit your Scope of Work and updated timeline to Caltrans (staff contact information below) by May 28, 2010.

Please be aware that SBCAG's modeling incentive award will not fully fund the scope of work proposed in your application. Your revised scope of work will be reviewed for approval by the SGC's Key Staff. Once approved, your revised scope will become your new scope of work for the purposes of this modeling incentive program.

These funds augment your existing OWP. However, these funds are administered by the SGC, which is statutorily charged with the distribution of data and information to help create more sustainable communities. Final products, including spatial data, created with these funds must be shared with the State by uploading them to the state's central data website: www.data.ca.gov/partner_data_uploads.html.

One of the SGC's mandated objectives is to promote public health. This was strengthened by the Governor's Executive Order S-04-10, which directs the SGC to create a "Health in All Policies" Task Force. The Executive Order can be reviewed at: <http://gov.ca.gov/executive-order/14537>. In order to incorporate public health impacts into your modeling, as required by the Modeling Incentive Awards grant criteria, the SGC expects your agency to participate in trainings offered to help fulfill this requirement. In support of this funding, your agency should plan on sending one to two staff to a one-day training entitled "Building Community Health Measures into Modeling For Healthy Regional Planning and Decisions," preferably to the training scheduled in the region closest to your agency. Your agency should plan on sending staff who have major responsibility for implementing the modeling improvement plans, including the research and data components, as well as MPO staff responsible for developing the sustainable communities strategies. This one-day training session, led by Lawrence Frank, PhD, Urban Design 4 Health, Inc. and his staff, will be held on June 7, 8, and 16, in Oakland, Fresno, and Los Angeles, respectively. For additional information, please see the attached flyer or contact Jacquelyn Duerr, California Department of Public Health, at (916) 449-5705, jacquelyn.duerr@cdph.ca.gov.

Please contact the following Caltrans staff if you have any questions about these funds, and to submit the current Scope of Work and updated project timeline:

Garth Hopkins
Caltrans HQ Division of
Transportation Planning
(916) 654-8175
garth.hopkins@dot.ca.gov

Marilee Mortenson
Caltrans HQ Division of
Transportation Planning
(916) 653-3758
marilee.mortenson@dot.ca.gov

Sincerely,



Cynthia Bryant
Chair, Strategic Growth Council
Chief Deputy Director, Department of Finance

Attachment

c: Strategic Growth Council Members
Strategic Growth Council Key Staff
Caltrans Deputy District Director for Planning, District 5
Martin Tuttle, Caltrans Deputy Director, Planning and Modal Programs
Coco Briseno, Chief, Caltrans Division of Transportation System Information
Sharon Scherzinger, Chief, Caltrans Division of Transportation Planning
Garth Hopkins, Caltrans Division of Transportation Planning
Marilee Mortenson, Caltrans Division of Transportation Planning

Attachment 2
FY 2009-10 OWP, as amended

**WORK ELEMENT 2050
TRAVEL DEMAND FORECASTING**

Objective

- Recalibrate and validate SBCAG's expanded countywide travel forecasting model using new base year 2005 counts and other more recent household survey data.
- Update base year and forecast years with 2007 RGF Forecast 2005 -2040.
- Apply travel model in cooperation with local agencies to forecast traffic growth, assess demand for roadway and intersection improvements, evaluate land use alternatives, evaluate transportation control measures (TCMs) and determine conformity between transportation and air quality plans.
- Use GIS capability to develop highway, transit, bikeway, and other networks on model to assess characteristics of the network, e.g. miles of roads or bikeways by functional class
- Develop information for public and decision makers on future effects of proposed transportation projects and land use policies on transportation system.
- Expand and enhance the capability of the travel model for web-based application, traffic impacts and land use scenarios, and coordinate the application of the regional model with the development of Caltrans D5 micro-simulation models on Highway 101 CSMP project as appropriate.

Previous and Ongoing Work

- Apply the expanded travel model using TransCAD software to update the long term travel forecast for 2040 based on the 2007 Regional Growth Forecast (07'RGF)
- Apply the model for regional and sub-area modeling including providing technical assistance to the Cities of Lompoc and Santa Barbara General Plan updates
- Application of the model to evaluate various Caltrans corridor transportation alternatives for Highway 101 projects including 101HOV, Corridor Mobility Improvements Account (CMIA), and Corridor Systems Management Plan (CSMP) Projects.
- Continue development of enhanced evaluation capabilities including performance measures, visualization techniques for reports and presentations
- Federal Certification Review, 2008, Travel Forecasting Procedures

Tasks

Data Development, Collection, and Assembly

1. Update TAZ's in conjunction with 2010 Census products. Coordinate with Ventura and San Luis Obispo Counties on external trips. Coordinate activities with Work Element 2020 (Census Data Center) and Work Element 2030 (Regional Growth Forecast).
2. Apply GIS capabilities to map transit routes and corridor buffers, bikeways, analyze carpool match list by zip code, and other TDM analysis capability as appropriate.
3. Incorporate survey results from the latest available survey data including the 2007 Santa Barbara Commuters Survey the new 2009 National Household Travel Survey, possible

2010 Caltrans Statewide Travel Survey, and from the latest 2005-07 ACS and CTPP database as appropriate to assist trip generation and trip distribution calibration efforts.

4. Incorporate any new local Transit on-Board surveys into the model to further calibrate the transit mode choice model to address transit travel patterns including original/destination markets, transit ridership corridors, and high transit patronage routes and stops. Coordinate with Work Element 3010.
5. Continue participation with the County of Santa Barbara in the Enterprise Geodatabase Project for the development of a countywide centralized geodatabase.

Model Development and Enhancement

6. Re-calibrate and validate SBCAG's expanded countywide travel model from the current 2000 base year to 2005 base year, update the model count data to 2005, National and/or Statewide Household Travel Surveys, and other more recent traffic counts and data.
7. Continue maintenance and update TransCAD software to its latest version.
8. Update the long-term travel forecast to 2040 under an average day and in three time periods (AM, PM, and Off-Peak) for highway and transit models.
9. Utilize the expanded model to explore non-motorized modes of transportation, i.e., bike and pedestrian and to examine the impacts on "smart growth" strategies.
10. Develop traffic forecast fact sheet that contains summaries of transportation statistics for 2005 base year, and 2040 future year.
11. Integrate the latest traffic counts and survey data collected from Highway 101HOV, CMIA, CSMP Projects into the model network to enhance the availability of count database and locations.
12. Integrate travel model software and intersection LOS software (Traffix) with CMP reporting. Assist local agencies with standardizing intersection LOS analysis and reporting using LOS software in conjunction with the Work Element 3080 (Congestion Management).
13. Incorporate model improvements based on the SB375 legislation related to green house gas (GHG) emissions budgets as appropriate.
14. Consider formation of a peer group review process for regional travel model validation and capability enhancements.
15. Provide staff training on travel forecasting. Conduct literature review to remain aware of latest modeling trends and other model software developments including traffic simulation, activity-based modeling, smart growth, and the ongoing FHWA Transportation Model Improvement Program (TMIP) and web-based seminars.
16. Continue participation in Central Coast Transportation Model Users Group and California Inter-Agency Forums, local and nation-wide modeling focus groups in Transportation Modeling for information sharing and model enhancement.
17. Consider strategies to test future regional land use development scenarios and its effects on the network and inter-regional travel.
18. Examine strategic partnership with Caltrans D5 CSMP modeling team in the development, maintenance and application of micro-simulation models using TransModeler software on the Highway 101 corridor as a result of the CSMP project.

Model Application

19. Continue to apply the expanded model to evaluate various capital improvement options and monitor the implementation of the final consensus packages recommended by the 101 in Motion project including HOV, commuter rail, express transit, and transportation demand management strategies.

20. Implement "TransCAD for the Web" to provide information online to the general public with interactive mapping capabilities on socioeconomic data, trends and travel demands including Census 2000 and 2005-07 the American Commuter Survey information, county-to-county traffic flows, traffic counts and future travel forecasts, etc. Develop an online travel forecast summary for web publicity.
21. Provide model output and technical assistance to Caltrans District 5, as staff time permits, for System Planning documentation, Corridor Studies, Project Initiation Documents, and project level modeling and forecasting and traffic analysis for state highway projects. Provide technical assistance, as time permits, to local agencies and consultants for project specific requests and sub-area modeling.
22. Provide technical assistance to local agencies and consultants for project specific requests and sub-area modeling.
23. Solicit public input on travel forecast updates as needed.
24. Develop Request for Proposal for Travel Model Improvement.

Products

Date

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| ▪ New SBCAG travel model with 2005 calibrated base year and 2015/2020/2030/2040 forecasts as required for RTP and FTIP | 9/09 |
| ▪ Updated model forecast report | 1/10 |
| ▪ Enhancement of peak hour, emissions, and TCM analysis capabilities | 9/09 |
| ▪ Update TAZ boundaries for 2010 Census | 4/10 |
| ▪ TransCAD-For-the-Web active | 3/10 |
| ▪ Revised short- and long-term travel forecasts | 6/10 |

Budget

Funding

SBCAG	\$ 102,800	FHWA PL	\$ 97,000
Consultants	<u>425,000</u>	FTA 5303	15,772
	<u>\$ 527,800</u>	State Grant-Prop 84	400,000
		SBCAG	<u>15,028</u>
			<u>\$ 527,800</u>

**FY 2009-10 OVERALL WORK PROGRAM
FUNDING SOURCES , Revision 2**

Work Element	FTA 5303		FHWA PL		Other Federal	State	Other Local	SBCAG Non-Federal *	Total	
	Federal Share	Local Match Non-Federal *	Federal Share	Local Match Non-Federal *						
1000	Program Administration									
1010	OWP Development & Monitoring	15,000	1,943	49,000	6,348	0	0	0	409	72,700
1020	Regional/Subregional Coordination	0	0	21,700	2,811	0	0	0	89	24,600
1030	Public Participation and Information	10,500	1,360	71,500	9,264	0	0	0	476	93,100
1040	TDA Administration	0	0	0	0	0	0	0	148,800	148,800
2000	Comprehensive Planning/Analysis									
2010	Airport Land Use Planning	0	0	0	0	0	50,000	15,000	44,000	109,000
2020	Census Data Center	15,000	1,943	84,000	10,883	0	0	0	274	112,100
2030	Regional Growth Forecast	15,000	1,943	47,500	6,154	0	0	0	403	71,000
2035	Central Coast Regional Blueprint Planning	0	0	0	0	0	15,000	0	31,500	46,500
2050	Travel Demand Forecasting	11,772	1,525	116,700	15,120	0	400,000	0	183	545,300
3000	Transportation Planning and Programming									
3010	Regional Transportation Plan	10,000	1,296	163,000	21,118	0	0	0	686	196,100
3011	Central Coast Flows	0	0	0	0	0	0	0	0	0
3020	Highway Planning	0	0	120,000	15,547	0	0	0	53	135,600
3030	Transit/Paratransit Planning	108,500	14,057	0	0	0	0	0	543	123,100
3040	Passenger Rail Service Planning	0	0	0	0	0	0	0	69,000	69,000
3050	Bicycle/Pedestrian Planning	0	0	12,700	1,645	0	0	0	55	14,400
3070	ITS Development & Deployment	0	0	35,000	4,535	200,000	0	0	13,665	253,200
3080	Congestion Management Program	0	0	43,000	5,571	0	0	0	229	48,800
3090	Transportation Improvement Program	0	0	138,000	17,879	0	250,000	0	34,721	440,600
4000	Air Quality Planning									
4010	SIP Development	0	0	0	0	0	0	25,000	5,700	30,700
5000	Program Delivery/Services									
5010	Service Authority for Freeway Emergencies	0	0	0	0	0	268,000	0	180,100	448,100
5020	Local Transportation Authority	0	0	0	0	0	0	0	303,000	303,000
5021	LTA Regional Projects	0	0	0	0	0	0	0	1,055,300	1,055,300
5030	Traffic Solutions Program	0	0	0	0	330,100	0	800,000	118,000	1,248,100
	Total	185,772	24,067	902,100	116,875	530,100	983,000	840,000	2,007,186	5,589,100

FY 09-10 Allocation	185,772	786,110
Carryover	0	115,990
Total Funding	185,772	902,100

* Consists of, but is not limited to, Measure D funds; TDA planning allocations; interest earnings; SAFE motor vehicle fees, and available fund balances.

Attachment 4: Revised Model Improvement Program Summary (June 2010 – Feb 2012), Strategic Growth Council Grant

Time Frame	Milestones and Deliverables 2/	Date Of Completion	Estimated Cost 2/	
			SBCAG	Local
6/2010	2007 RGF Forecasts & Model Application / Update <ul style="list-style-type: none"> Update forecasts to 2005 base year and future forecasts for SCS, prepare technical report Update transit network, verify future alt. network 	Aug 2010	\$5,000	In-kind
		Sep 2010	\$5,000	
7/2010 - 6/2011	Data Gathering, Management & Application <ul style="list-style-type: none"> Integration of transit survey and traffic count data Employment Data Acquisition InfoUSA 2010 Aerial Acquisition Census TAZ Update Database acquisition and integration for model calibration (ACS, NHTS, & other sources) RFP for model improvements 	Aug., 2010 Aug.,2010 Dec., 2010 Dec 2010 Apr 2011 Jun 2011 Sept . 2010	\$60,000 \$10,000 \$10,000 \$5,000 \$5,000 \$30,000	In-kind
	Land Use –Transportation Integration & Enhancement <ul style="list-style-type: none"> Selection land use modeling method Parcel-level database acquisition & integration General Plans digitized Initiate resource constraint data acquisition Land use modeling software acquisition and integration 	Sept. 2010 Dec. 2011 Jan. 2011 Nov. 2010 Nov. 2010	\$130,000 SBCAG \$50,000 \$10,000 \$20,000 \$50,000	
7/2011- 2/2012	Model Enhancements and Application <ul style="list-style-type: none"> 4D Post Possessor Development, bike/walk output link to parcel database Dynamic Assignment, performance measures and reporting automation with ties to EMFAC TransCAD-For-The-Web implementation Final GIS resource layers acquisition/ Development of Centralized Data Bank / Server 	Jun 2011 June 2011 June 2011 June 2011	\$145,000 \$75,000 \$30,000 \$20,000 \$20,000	In-kind
	Land Use – Transportation Integration <ul style="list-style-type: none"> Develop Sketch Planning Tool Land use scenario testing and application 	Dec. 2011 Jan. 2012	\$60,000 \$40,000 \$20,000	
TOTAL		6/2010- 2/2012	\$400,000	

2/ Consultant assistance and costs assumed.