

## PROGRAM HIGHLIGHTS

### 1. PLAN SUPPORT

#### A. Unified Planning Work Program

Work continued on monitoring the FY 2008 UPWP.

Staff revised the draft memorandum of understanding (MOU) that identifies the responsibilities of the TPB, the state DOTs and the public transit operators for carrying out the metropolitan transportation planning process. The Technical Committee and the Regional Bus Planning Subcommittee were briefed on the second draft MOU at their meetings in October. The TPB was briefed on it at its October 17 meeting. It is expected the Technical Committee, the Regional Bus Planning Subcommittee will be briefed on the draft MOU at their meetings in November. All of the parties will then be asked to sign the MOU in December.

#### B. Transportation Improvement Program

On October 9, the TPB Steering Committee amended the FY 2007-2012 TIP to add funding for a project as requested by MDOT, and to include the I-66 Multimodal Study, five new projects and to update funding for one project as requested by VDOT.

On October 11, the TPB hosted its first annual public forum on the region's six-year Transportation Improvement Program (TIP). The meeting was designed to give citizens a preview of the draft FY2008-2013 TIP and provide background information on the annual process for developing the program. SAFETEA-LU requires metropolitan planning organizations to conduct a public meeting during the TIP development process. The TIP forum featured presentations from the agencies responsible for implementing transportation in the region, including the state departments of transportation and the Washington Metropolitan Area Transit Authority (WMATA). These representatives provided insight into their project selection process and agency revenue streams.

The Technical Committee was briefed at its October meeting on a draft set of procedures defining how the MPO will consider and act on TIP administrative modifications and amendments. The Call for Projects document for the 2008 CLRP and FY 2009 TIP was released by the TPB at its October 17 meeting.

#### C. Constrained Long-Range Transportation Plan (CLRP)

The Call for Projects document for the 2008 CLRP and FY 2009 TIP was released by the TPB at its October 17 meeting.

Staff worked on documenting the 2007 CLRP during the month of October. The structure and design of the new CLRP website was finalized. A summary of how the 2007 CLRP meets a range of Federal Regulations was developed. Content from last year's CLRP documentation was updated and edited. Staff also developed a new format for the CLRP brochure and created new content and draft maps of the major projects in the Plan.

Work continued on the environmental maps of the CLRP which show CLRP projects with environmental resources such as wetlands, floodplains and historic sites. Materials explaining the maps purpose and data were developed. The maps and accompanying materials were reviewed at COG interdepartmental meeting which provided the Department of Environment and the Department of Human Services, Planning and Public Safety review and comment on the effort. A short overview of the environmental consultation effort and maps was given to the Planning Directors on October 12, 2007.

D. Financial Plan

Staff continued to review the spread sheets for the revenue and cost estimates in the financial analysis of the 2006 CLRP. These estimates, which are in constant 2006 dollars, will be updated to reflect year of expenditure dollars for the financial plan for the 2007 CLRP. The summary tables of revenues and expenditures for the CLRP in year of expenditure dollars will be presented for review to the Technical Committee in November and incorporated into the financial plan documentation on the CLRP web page which is scheduled to be released for public comment in December.

E. Public Participation

The public comment period for the TPB's draft Participation Plan began on September 13 and ended on October 28. The Participation Plan is required under the 2005 federal transportation reauthorization (SAFETEA-LU). TPB staff developed the plan over a period of several months, which included public outreach. The Plan also incorporates recommendations included in an evaluation of TPB public involvement activities that was conducted by the firm Circle Point earlier this year.

The first annual TIP forum was held during the second hour of the regular TPB Citizens Advisory Committee (CAC) meeting. The normal business meeting of the CAC included presentations on the completion and evaluation of the TPB's Transportation/Land-Use Connections (TLC) Program pilot phase, and on the upcoming activities of the new TPB Scenario Study Task Force.

Staff conducted two outreach sessions on the Regional Mobility and Accessibility Study in the following locations:

- D.C. Federation of Citizens Associations meeting - Tuesday, October 23 at 6:30 pm at the Sumner School, 17 and M Streets, NW in D.C.
- A convening of Ward 7 ANC Chairs and activists - Monday, October 29 at 6:30 pm at the Lutheran Church at Branch and Alabama Avenues, SE in D.C.

Staff continued planning for upcoming sessions of the Community Leadership Institute for 2008.

The October edition of the TPB News was written and distributed.

F. Private Enterprise Participation

No work activities during the report period.

G. Annual Report

Staff began initial work on next year's annual report. The recently completed report was mailed and distributed.

H. Transportation/Land Use Connection Program

Following a positive evaluation of the Transportation/Land-Use Connections (TLC) Program in the pilot phase, the TPB in October approved an amendment to the FY 2008 Unified Planning Work Program (UPWP) to expand the TLC Program during this fiscal year. In FY 2008, the TPB will administer at least eleven technical assistance projects under the TLC Program.

The TPB adopted staff recommendations to increase the number of technical assistance projects funded through the TLC Program, from five location-specific projects to at least six location-specific projects. Staff updated the TLC brochure and application for use in a new call for projects. The deadline for the next round of applications will be January 15, 2008.

In addition, the TPB is overseeing five TLC projects funded through a grant from the Virginia Department of Transportation (VDOT) Multimodal Grant Program. These five additional projects, which will be completed in FY 2008 through the VDOT Program, comprise the following:

- City of Alexandria: Review of the Transportation Management Plan Program.
- Fairfax County: A Review of Past Land-Use and Transportation Projects.
- City of Falls Church: South Washington Street Corridor Planning.
- Town of Leesburg: An Analysis of Bus Rapid Transit for Leesburg.
- City of Manassas Park: City Core Planning and Development.

Staff began working with the above jurisdictions to refine their project scopes. Staff also used the list of TLC consultants, who were pre-qualified last spring, to identify potentially appropriate matches for each of the five projects. Staff will solicit proposals from three or four consultants for each project.

In October, staff requested proposals from three consultants for the Alexandria project.

Staff continued to update and maintain the TLC website.

I. DTP Management

In addition to the provision of staff support for meetings of the TPB, the Steering Committee, and the Technical Committee, the following activities were undertaken:

- The DTP Director attended the annual meeting of the Association of Metropolitan Planning Organizations (AMPO) in Little Rock, and presented a report on greenhouse gases from transportation sources in the Washington region.
- The DTP Director participated as a speaker at an ITE press conference on traffic signal optimization.

- The DTP Director participated in an international roundtable on cost/benefit analysis in transportation at Boston University.

## 2. COORDINATION PLANNING

### A. Congestion Management Process (CMP)

Staff continued developing CMP components of the Constrained Long Range Plan (CLRP) and a CMP technical report. Staff gave briefings on the CMP to the Management, Operations, and Intelligent Transportation Systems Policy Task Force and Technical Subcommittee (October 9, 2007), the Travel Management Subcommittee (October 23), and the Regional Bus Subcommittee (October 23), and received feedback and direction from these groups. The Travel Management Subcommittee advised that completion of the CMP components of the CLRP be expedited, and development of the CMP technical report be deferred to later in the fiscal year, after the CLRP was complete.

### B. Management, Operations, and Intelligent Transportation Systems (ITS) Planning

- The Management, Operations, and Intelligent Transportation Systems (MOITS) Policy Task Force and MOITS Technical Subcommittee met on October 9, 2007, discussing the items below. Staff also continued work on these MOITS program areas.
- The Task Force, Subcommittee, and staff received a briefing from the Maryland State Highway Administration on the status of the I-270 Integrated Corridor Management (ICM) project, and provided feedback and input.
- The Task Force, Subcommittee, and staff discussed the status of being able to provide travel time estimates on freeway variable message signs.
- Staff undertook continuing support activities for the development of the Metropolitan Area Transportation Operations Coordination (MATOC) Program and MATOC Steering Committee. The MATOC Steering Committee met on October 9, 2007, discussing the status of the program and its administration. Administrative processes to set up funding and enter into a contract with a consultant team continued through the period and into October.
- Staff continued work to update the Regional Intelligent Transportation Systems (ITS) Architecture. The Regional ITS Architecture Subcommittee met October 31 to review and provide guidance to the update.

### C. Transportation Emergency/Security Planning

The Regional Emergency Support Function 1 – Emergency Transportation Committee met on October 23, 2007. The Committee discussed DDOT and MDOT evacuation planning and analysis activities. The Committee also continued discussions of forming an RESF 1 Operations Group (Field Personnel), including the possibility of setting up visits at operations centers to establish and build relationships throughout. Finally, the

Committee discussed the status of the Urban Area Security Initiative program and funding.

D. Transportation Safety Planning

A draft Safety element of the Constrained Long-Range Plan was written, along with a powerpoint, to be presented to the TPB Technical Committee in November.

TPB staff attended a meeting at the Baltimore Metropolitan Council to provide input for a planned safety campaign for the Baltimore region.

E. Bicycle and Pedestrian Planning

The CAO's Committee was briefed on the results of the Spring 2007 Street Smart campaign, funding status and planning for FY 2008, and proposed suggested TPB member contributions for FY 2009. The CAO's voiced no objection to the suggested amounts for FY 2009, which are to be sent to the TPB member jurisdictions with a cover letter requesting funding.

TPB staff and the Washington Area Bicyclist Association staff determined that the WABA sub-consultant for the bicycle route-finding project, bicycle.org, would not be able to complete Phase II of the project. After meeting with Commuter Connections staff, TPB staff determined that the contract with WABA should be terminated by mutual convenience, and that Phase II would be handled in by Commuter Connections and TPB staff, and by the Commuter Connections Consultant, Base Technologies, which is redesigning the Commuter Connections web site.

TPB staff and Commuter Connections staff also met with Base Technologies staff, and Base Technologies expressed interest in taking on the project. The Navtec data which COG has acquired, together with the data which WABA was able to gather, will make a turn-by-turn, A to B route-finding functionality possible. Phase II project funds and a scope of work will be added to the Base Technologies contract. Key members of the Bicycle and Pedestrian Subcommittee were advised of these developments, and the Subcommittee will be briefed at its November meeting.

In response to Bicycle and Pedestrian Subcommittee member requests, TPB staff met with Commuter Connections staff to discuss the adoption of the Sharepointe software, which will make it possible to set up electronic bulletin boards, among other functions, for TPB committees.

Due to schedule conflicts and lack of room availability, a Trails seminar will be deferred from late November to January, 2008.

F. Regional Bus Planning

During the month of October, TPB staff continued working on the Status of the Region's Bus Systems report, soliciting comments from the region's transit operators. An updated draft of the report was presented to the Regional Bus Subcommittee at the October 23 meeting.

Staff continued work on the proposal to conduct a regional on-board bus survey. Staff worked extensively with WMATA to develop mutually agreeable terms for this region-

wide survey proposal. The status of the proposed survey was presented to the TPB Technical committee on October 5 and the subcommittee on October 23.

G. Human Service Transportation Coordination

During the month of October, staff prepared for the Human Service Transportation Coordination Task Force meeting on October 11, 2007. The Task Force was updated on potential regional projects, including one for a web-based clearinghouse of specialized transportation services. The Task Force made suggestions for conducting the next project solicitation, including details such as timing, funding amounts and outreach. A meeting summary was prepared.

H. Freight Planning

Staff continued development of freight planning input for the 2007 CLRP for completion by December 2007.

Staff participated in a Maryland statewide freight planning study meeting on October 16, 2007 in Hanover.

3. **FORCASTING APPLICATIONS**

A. Air Quality Conformity

Staff continued with several parallel work tasks on the air quality conformity assessment of the 2007CLRP and FY2008 – 13 TIP, including: completion of base year 2002 travel demand and 2008 and 2009 travel forecasts, and work on the 2010 forecasts; additional work testing HOT lane toll structures for 2010 to 2030 using the Version 2.2 model; work to review newly developed emissions factors and calculation of mobile source emissions for required pollutants for the first three simulation years listed above.

Following receipt of a letter from VDOT reflecting a later completion date for the Virginia Beltway HOT lanes, staff recoded the 2010 transportation networks to reflect the change and began work to prepare a new travel demand forecasts for 2010. Staff prepared a new schedule for the conformity analysis, reflecting a month's delay to accommodate the additional work required for the 2010 network and travel demand updates.

Staff completed work to update the TERM appendices of the draft *Call for Projects* document for the 2008 CLRP / FY2009 – 14 TIP.

In accordance with TPB consultation procedures, staff also forwarded to the consultation agencies and public advisory committees the meeting agenda and a summary memo regarding the October TPB meeting and air quality conformity consultation elements.

B. Mobile Emissions Analysis

Staff continued coordination work and technical work activities to develop mobile source emissions inventories for the PM2.5 SIP. Staff reviewed emissions factors

developed by DEP staff and provided comments to them. Staff prepared year 2009 controlled and uncontrolled inventories for direct PM<sub>2.5</sub> and SO<sub>2</sub>, and precursor NO<sub>x</sub> emissions. Staff participated in meetings of MWAQC, its Executive Committee and its Technical Advisory Committee. Staff attended a workshop of the COG Climate Change Steering Committee, and a meeting of the Energy and Greenhouse Gas Work Group.

Staff also participated in a Northern Virginia Transportation Alliance workshop, making a presentation on future air quality in the Washington area.

Staff attended the TDM Evaluation Group meeting in October to review and finalize the questionnaire for TERM evaluation. The Travel management Subcommittee met on October 23 and discussed the following work program activities: the outline of the proposed Congestion Management Process (CMP), and the draft CMP report that will accompany the 2007 CLRP and FY 2008-2013 TIP. They were briefed on the status of the air quality conformity assessment of the 2007 CLRP and FY2008 – 2013 TIP. They were also briefed on the TERM appendix section of the “Call for Projects Documents”, and the PM 2.5 SIP schedule.

In October DEP staff reviewed mobile inputs and prepared MOBILE6 emissions factors for the 2009 uncontrolled mobile inventories for PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>x</sub> for the annual PM<sub>2.5</sub> State Implementation Plan. Staff attended the TPB Technical Committee and Transportation Planning Board (TPB) meetings in October.

#### C. Regional Studies

Staff temporarily halted work on the Regional Mobility and Accessibility Study (RMAS) visualization applications to concentrate efforts on the cost and drill down analysis. Staff continued work on the on the cost analysis for the RMAS alternative transit scenarios. Staff also began work on the drill down analysis for transit and non-motorized (pedestrian and walk) modal shares for selected regional activity centers.

The new TPB Scenario Study Task Force met on October 17<sup>th</sup> to review and discuss the Task Force’s mission and activities. Staff presented an overview of Phase I and II of the RMAS Scenario Study and proposed Phase III activities.

#### D. Coordination Cooperative Forecasting & Transportation Planning

Staff completed processing of TAZ subzone GIS shapefiles submitted by Prince William County planning staff. The proposed COG/TPB revision of the TAZ structure for Prince William County was submitted to Prince William County staff for their review and approval.

Staff presented a status report on proposed revisions of COG/TPB TAZ structure to the Cooperative Forecasting Subcommittee.

Staff continued to make revisions to the proposed work plan for the “Greater Washington 2050” initiative in response to comments received from the Metropolitan Development Policy Committee (MDPC) and the COG Board.

### 4. DEVELOPMENT OF NETWORK / MODELS

#### A. Network Development

The development of highway and transit networks for use in air quality conformity of the 2007 CLRP and FY2008-2013 TIP were completed in September. Due to a change in the completion date for the Virginia Beltway HOT lane project, staff developed new highway and transit networks for year 2010 that omitted the project opening in that year. The complete set of networks meet the new Version 2.2 travel demand model specifications. Newly developed TP+ scripts, which supercede FORTRAN programs used previously, were employed in network building and path checking.

Staff continued cataloging 2007 local and commuter bus schedules in preparation for updating the base transit network for use in the next CLRP update in 2008. Staff also reviewed master highway network updates in COG's GIS, reflecting recent 2007 CLRP-based link updates.

The firm of Daniel Consultants, Inc. interviewed members of the network development staff, as well as staff from models development and GIS sections. The purpose of the interviews was to gain a background of current methods and procedures employed, including staff viewpoints on needed improvements, prior to beginning work providing technical guidance to TPB staff in improving GIS-based applications and protocols for developing and managing transportation networks. As a starting point, staff has furnished documentation to the contractor regarding current practices. This project is ongoing.

#### B. GIS Technical Support

Staff continued to monitor the performance of ArcGIS 8.3 and Oracle 9i databases.

Staff continued testing of the ArcGIS 9.2 software and development of the implementation plan to upgrade our GIS software from Version 8.3 to Version 9.2.

Staff continued implementation of the updated spatial dataset library, accompanying metadata and training materials.

Staff continued to review the NAVTEQ data for inclusion in the spatial data library and use in the development of new GIS applications.

Staff attended the MD MSGIC executive committee meeting to increase GIS coordination among COG and state and local government agencies in Maryland.

#### C. Models Development

Staff is preparing updated documentation on the Version 2.2 travel demand model, which is the model being employed in the current round of air quality conformity analysis of the TIP and Plan.

Development of a nested logit mode choice model continued, specified by AECOM under contract to TPB staff. Staff has successfully executed the model for the year 2005, after modifying the networks for use with this particular model application. This model will be part of the next updated travel demand model planned for release in early 2008. More detailed review is taking place, including the development of forecast year networks designed for use with the model application.

William Allen, under contract to TPB, is continuing with his effort to get updated medium and heavy truck demand models into production. Combined with the nested logit mode choice model described above, these new elements will form the basis of the updated

travel demand model that TPB is planning to release in early 2008. Mr. Allen plans to complete work on the new truck models by the end of November.

D. Software Support

Staff is supporting the development and execution of the DTP travel demand model using the CUBE/TP+ software and the MOBILE6.2 Mobile Source Emissions Factor Model in Air Quality Conformity and SIP Development. Staff support includes training in application of Cube/TP+ and Mobile 6.2 and maintenance of current documentation and user guides for both models. Staff is also monitoring the performance of the DTP desktop and laptop microcomputer hardware and software and the operation of the DTP plotters in coordination with the COG Office to Technology Programs and Services (OTPS) as appropriate.

5. **TRAVEL MONITORING**

A. Cordon Counts

A report documenting the results of the 2007 Regional HOV Facilities Monitoring project will be prepared as part of scoped activities in FY-2008. In preparation for development of this document, staff has begun processing the data collected in FY-2007.

B. Congestion Monitoring and Analysis

Staff conducted preliminary field investigation and logistical preparation for the next data collection cycle of the existing arterial highway congestion monitoring program. The slideshow DVD of the Spring 2007 off-peak and weekend congestion monitoring survey was finalized and delivered by the consultant.

C. Travel Surveys and Analysis Household Travel Survey (HTS)

Staff provided information about the HTS to the New York Metropolitan Transportation (NYMTC) Council, the MPO for the New York Region. NYMTC is planning a Household Travel Survey for the NY metropolitan area.

Staff continued to manually look up and geocode trip records that could not be automatically geocoded to X-Y coordinates by the survey contractor.

The contractor continued recruitment and interviewing of households randomly selected for participation in the HTS. By the end of October, the contractor has successfully recruited 9,344 households for participation in the 2007 HTS and retrieved travel day data from 6,469 of these participating households.

D. Regional Transportation Data Clearinghouse

Staff updated 2004-2006 AADT volumes for the District of Columbia.

Staff continued development of a new application to map to display Data Clearinghouse traffic volume estimates with an annotation that depicts the year of the traffic count on which the traffic volume estimate is based.

Staff began development of a process to migrate AADT traffic volumes to an MS-Access database and a new application for retrieving selected Transportation Data Clearinghouse highway segments from this database.

6. **TECHNICAL ASSISTANCE**

A. District of Columbia

Program Development, Data Requests and Miscellaneous Services

No staff activities.

DDOT Traffic Counts

Staff is continuing the quality control check of the spring 2007 HPMS traffic volume data.

Recommend Supplement Traffic Counts

No activity to report during the period.

FY08 DDOT HPMS Project

Staff continued development of an updated traffic volume map for DDOT using current HPMS section AADT volumes.

Staff drafted a report on recent efforts to improve the quality of the District's traffic data and procedures used in preparing DDOT HPMS submissions to the FHWA and reviewed this report with DDOT's HPMS Coordinating Committee.

Staff began a preliminary review of 93 three-day machine traffic counts and 13 seven-day classification counts conducted in 2007.

Staff began a review and analysis of DDOT's HPMS sample adequacy.

B. Maryland

Program Development /Management

Staff continued coordination with MDOT and MDSHA staff regarding FY2008 work program activities.

Maryland Miscellaneous Services

Staff completed work to provide loaded highway link files and VMT estimates for the simulation years 2002, 2010, 2020 and 2030 from the Air Quality Conformity regional modeling process adopted on June 20, 2007, amended from the Air Quality Conformity process originally adopted on October 28, 2006, to a consultant to the Maryland Department of Transportation.

Staff continued work to provide a copy of the COG/TPB draft Version 2.2 travel demand model with associated inputs to the Montgomery County, Maryland, Planning Department of the Maryland National Capital Park and Planning Commission.

Staff provided a copy of the 2005 Washington – Baltimore Regional Air Passenger Survey file with file format description to a consultant to the Maryland Transit Administration.

#### MDOT Training / Technical Support

Staff reviewed documentation report, e.g., draft environmental impact study, alternatives retained for detailed study, for various project planning studies in Maryland. Staff met with MD SHA staff and transmitted a draft version of COG/TPB Version 2.2 Model, as well as the Version 2.1D#50 model. As a part of the transmittal, TPB staff provided some basic training in modeling to the MD SHA staff. Subsequently, MD SHA staff were able to replicate the draft validation model runs for 2000 and 2030. Additional training will be scheduled throughout the year.

#### Corridor Cities Transitway / Bi-County Transitway

##### I-270 Study

Staff attended a team meeting at MD SHA headquarters in Baltimore on October 9, 2007. The study team advised that the MTA model was almost ready for the first set of future year alternatives, and that additional data collection on WMATA service may need to be performed to obtain some basic income information.

#### Project Planning Support

Staff continued work to address SHA's requests for technical services in a number of planning areas, including truck travel, highway needs inventory analysis, traffic impact analysis and training.

#### Managed Lanes Project

Staff began to review the corridors / data requirements in anticipation of the transition to the Version 2.2 model for FY2008 planning activities on the project.

#### Recommend Supplement Traffic Counts

No activity to report in the period.

#### C. Virginia

##### Program Development

There was no activity to report in October.

##### Miscellaneous Services

There was no activity to report in October.

##### Northern Virginia HOV Facilities Monitoring and Data Collection

Staff completed multiple-day A.M. counts along a screenline running roughly parallel to Franconia Road (Va.644). At VDOT's request, travel time ruins were completed in the

P.M. HOV-restricted period along the I-95/I-395 corridor in the HOV and non-HOV lanes. These P.M. travel time data were obtained on the same days as the A.M. counts. Data were transmitted to VDOT at the end of the month.

A.M. and P.M. HOV traffic counts were also conducted along I-395 and I-66, and will Continue into November.

High Occupancy / Toll (HOT) Lane Traffic Analyses

There was no activity to report in October.

Public Safety / Information Pamphlets

There was no activity to report in October.

Enhanced Commuter Corridor Count Program Continuation

There was no activity to report in October.

Recommend Supplemental Traffic Counts

There was no activity to report in October.

D. WMATA

Program Development

No activity to report in the period.

Miscellaneous Services

Accessible Pathways Analysis for MetroAccess Customers

TPB staff worked with WMATA staff to prepare a scope of work for an RFP to select a consultant to conduct this study. The RFP is scheduled to be released in November.

Geocode 2007 WMATA Rail Survey Data

No activity to report in the period.

Geocode 2007 WMATA Bus Passenger Survey

No activity to report in the period.

7. **CONTINUOUS AIRPORT SYSTEM PLANNING (CASP) PROGRAM**

A. CASP 22

(1) Update Air Passenger O-D Forecasts

No staff activity to report

(2) Air Cargo Element Update

No staff activity to report

B. CASP 23

(1) Process Air Passenger Survey

Staff scheduled the data entry of the responses on the completed survey questionnaires and began specification of the logical edits to be performed on the raw survey data files.

(2) Update Ground Access Forecasts – Phase 1

No staff activity to report.

C. Conduct 2007 Air Passenger Survey (MWAA?MAA Funded)

(1) Collect Air Passenger Survey Data

Staff supervised the survey contractor's survey interviewing and data collection activities, a total of 18,956 completed survey questionnaires were collected from air passengers on 685 flights at the region's three commercial airports. Revenue passenger boarding counts were also obtained for each sampled flight.

Consultant Support

Vanesse Hangen Brustlin, Inc. – Technical Assistance – Travel Demand Model Development and Application - \$90,000 – ongoing.

AECOM CONSULT, INC. - Technical Assistance – Transit Modeling - \$24,500 – ongoing.

William Allen – Technical Assistance – Business/Commercial Modeling - \$24,500 – ongoing.

Daniel Consultants, Inc. – A Project to Improve GIS-Based Applications and Protocols Used to Develop and Manage Transportation Networks - \$75,000 – ongoing.

NuStats – Household Travel Survey - \$2,059,548 – ongoing.