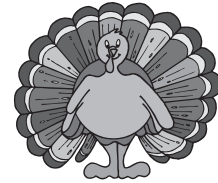


TBAG

TAMPA BAY APPLICATIONS GROUP

An Open Forum for
Transportation-Related Issues



Volume 26
November/December 2003

**TBAG Banquet
Monday,
December 8th**
Registration form inside

“FROM THE CHAIR”

by: Christopher Hatton,
Kimley-Horn and
Associates, Inc.
2003 Chairman
for the Tampa Bay
Applications Group

“And the hits just keep on coming!” Another TBAG meeting...and another great program. The October 30, 2003 meeting focused on “Transportation and Land Use”...and over 70 members were “treated” to an outstanding presentation.

Ned Baier (Hillsborough County), **Randy Kranjec** (TBE Group, Inc.) and **Rob Schiffer** (Cambridge Systematics, Inc.) led off the program with a discussion on the “Hillsborough County Transportation Corridor Plan”. Their presentation consisted of a short video discussing the project, along with discussions on the results of the travel demand forecasting and how a GIS analysis was used to



Rob, Ned and Randy gather together for a picture after their presentation.

determine impacts of the proposed roads. **Betsy Howard** (Hillsborough County) was kind enough to assist with the technical side of the presentation, including coordinating the lighting for all three presentations. Thank you Betsy!



Jim and Dan pose for a quick photo.

The next segment of the program was the first in a series of presentations on the “Transition to TransCAD”. **Jim Baxter** (FDOT-District 1 Planning)

and **Dan Macmurphy** (Wilson Miller, Inc.) demonstrated ways to use TransCAD for data development and implementation, as well as other applications currently underway within District 1.

Getting back to the “Transportation and Land Use” topic, **Brian Smith** (Pinellas County) and **Mike Crawford** (Grimail Crawford, Inc.) discussed “Transit and Land Use Planning for the Pinellas Mobility Initiative”. Their very informative presentation focused on the project



Mike and Brian are pleased with their presentation.

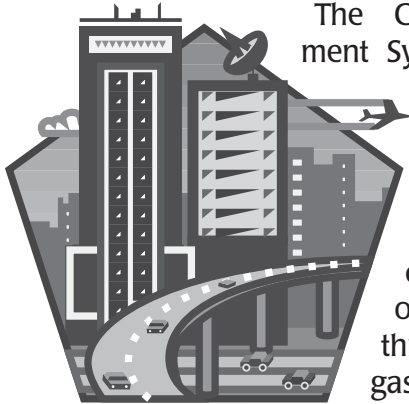
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Using TransCAD for the Las Vegas Congestion Management System Study

by: Jackie Vallejo, E.I., Orth-Rodgers & Associates, Inc.



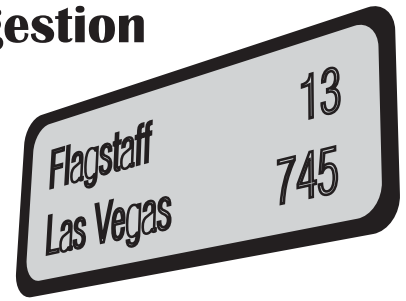
The Congestion Management System (CMS) created for the Regional Transportation Commission (RTC) of Southern Nevada is intended to compare congestion on links and corridors throughout the Las Vegas valley regardless of functional class, area

type, or mode. The CMS consists of two parts: (1) an analytical process for identifying congested links and corridors on the network, and (2) a structured process to screen mitigation strategies for the congested areas. The congestion identification process, or Congestion Analysis System (CAS), calculates congestion for four different components:

- intensity – a measure of the concentration of congestion
- duration – the number of hours congestion occurs during a typical day
- extent – the number of persons or vehicles affected by congestion
- reliability – a measure of the affects of non-recurring congestion on the roadway.

The RTC's CMS, rather than relying exclusively on volumes and/or volume-to-capacity ratios from the regional travel demand model, uses valley-specific information and planning level calculations from the Highway Capacity Manual.

Congestion scores from the Congestion Analysis System can be exported to a standard database format. This file can then be opened in TransCAD and joined to a network layer. TransCAD's theme capabilities can then be used to graphically depict congestion scores in the valley. This provides an additional visual tool for: (1) checking the validity of the calculations, (2) inspecting the effects of each individual congestion component, and (3) determining appropriate corridors for further study.



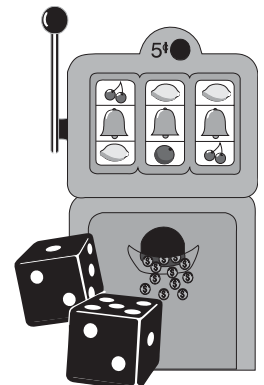
The TransCAD model provides the following information for the Congestion Analysis System:

- ✓ Number of lanes
- ✓ Speed
- ✓ Capacity
- ✓ Link length
- ✓ Functional class
- ✓ Area type
- ✓ Volume.

Through GIS, each of these aforementioned characteristics is associated with a link via a unique link identifier. By mimicking this structure, each component of the CMS remains compatible with the model. For instance, the CMS contains link specific information on vehicle occupancy. This could be combined with future model runs using the GIS compatibility.

The TransCAD model allows the user to graphically select the areas to be used in the CMS. As an example, if the user wants to study only the resort corridor, he or she could select the resort corridor on the TransCAD map and export the corresponding database.

Demographic information required for the congestion mitigation strategy screening process is quickly obtained from the regional travel demand model in TransCAD. The user places a geographic band around the corridor of interest and requests an overlay analysis of the TAZ layer. Demographic data from the TAZ layer is allocated to the band proportional to the band size. Once the new demographic data set is developed corridor specific model runs can be performed. For more information, please contact Jackie Vallejo at jvallejo@orth-rodgers.com.





A BIG TBAG THANK YOU

The Tampa Bay Applications Group (TBAG) has had a fantastic year, with record breaking attendance at every meeting. These programs, however, would not have been possible without the participation of our transportation planning community. The TBAG Board would like to thank all of the volunteers who have taken time out of their busy schedules to present at a meeting/workshop or submit an article for the TBAG newsletter during this year. Thank you for your continued support of TBAG!

ARTICLES:

Ned Baier

Hillsborough County Takes a Unique Approach to Corridor Planning

Rob Cursey

Socioeconomic Data Review for Corridor Study Application

Dan Macmurphy

An Exercise in TransCAD

Ram Pendyala

Update on the Efforts of the Florida Model Evaluation Study

William E. Roll, Jr.

TransCAD: An Evaluator's Perspective

Mary Stallings

Internet Mapping Software: An Update on the Pinellas County Web Site and Other Exciting Sites

Seongsoon Yun and

Myung Sung

Tampa Bay Regional Transportation Analysis and Model Validation Study: Unique Aspects of the Truck Trip Characteristics Survey

Jackie Vallejo

Using TransCAD for the Las Vegas Congestion Management System Study

PRESENTATIONS:

Ned Baier, Randy Kranjec and Rob Schiffer

Hillsborough County Transportation Corridor Plan

Jim Baxter and

Dan Macmurphy

Transitioning to TransCAD: Current and Future Plans

Waddah Farah, Kirk Bogen,

Ming Gao and Yvonne Arens

Pulling it all Together: Coordination within the I-75/I-275 and Bruce B. Downs Blvd. Corridors

Bob McCullough and

Danny Lamb

Migration of FSUTMS from TRANPLAN to TransCAD

Dr. Steve Polzin

Reflections on Florida's High Speed Rail Initiative

Paul Ricotta

TransCAD 4.5 Software Demonstration

Brian Smith and

Michael Crawford

Transit and Land Use Planning for the Pinellas Mobility Initiative

Jeff Weidner

A Success Story: The U.S. 1 Multi-modal Corridor Assessment, Palm Beach, FL

WORKSHOPS:

Rob Cursey

Socioeconomic Data Review for Subarea Analysis

Domingo Noriega and

Bob Johnson

Development of Design Hour Traffic Using Model Output

Sung-Ryong Han and

Jeff Stevens

Model Validation for Subarea Application

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issues related to land use planning and how it influenced overall project development.

Once again...a very special "thank you" to Ned, Randy, Rob, Betsy, Jim, Dan, Brian and Mike for their time and efforts in presenting to the TBAG members! Our next TBAG meeting will be our Year End Awards Banquet on December 8, 2003. I look forward to seeing you there!

Betsy is thanked by Kasey and Bill for 'lighting' up their day.



TRANSPORTATION COURSES AT USF SPRING 2004 SCHEDULE

Spring classes begin on January 5, 2004 and the last day of classes is April 23, 2004 with final exams during the week of April 26 to April 30, 2004. Spring Break is March 8-13, 2004. For registration information, please contact the Civil and Environmental Engineering office at (813) 974-2275.

TTE4005	Transp Engineering II	Lu	TTE6315	Transportation Safety	Lu
Mon/Wed	11-12:15 pm	CHE 104	Tues	5-7:50 pm	CUT 202
CGN4933	Transp & Society	Ward/Wambalaba	CGN6933	Adv Geometric Design of Hwy	Al-Kaisy
Tues/Thur	5-6:15 pm	CUT 102	Wed	5-7:50 pm	CUT 202
CEG4850	Capstone Transp Design	Jory	CGN6933	Access Management	Williams
Wed	6:30-8:20 pm	CUT 102	Thur	5-7:50 pm	CUT 202
TTE6930	Grad Trans Seminar	Pendyala	TTE6505	Disc Choice Models of Beh	Pendyala
Mon	2-2:50 pm	CUT 102	Fri	3-5:50 pm	CUT 202

The Tampa Bay Applications Group Newsletter is published under contract to the FDOT District Seven Planning Office in Tampa. FSUTMS users and TBAG members contribute all information and material contained in the newsletter. Please contact the editors to submit articles for future issues or to get on the mailing list.

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