

## **Bi-State Regional Commission**

August 13, 1999

Attending: Lalit Patel  
Richard Storm  
Jerry Shadewald

The first topic addressed was if the existing GIS-Tranplan interface was used at the Bi-State office. The interface is not used at the Bi-State office since it has six trip purposes and the interface only allows five. Therefore, one trip purpose had to be eliminated in order to use the interface. Shortly before our visit to Bi-State, work was started to increase the number of allowable trip purposes to ten. Tranplan allows up to fifteen different trip purposes, but very few offices should require more than ten.

The modeling process at the Bi-State office is a feedback trip assignment with a tolerance value of 0.002. It takes nearly 25 minutes to perform a complete run of the model through Tranplan. The network is broken down into freeway, express way, undivided arterial, collector, local road, river crossing and centroid connector assignment groups. Several "dummy zones" have also been placed into the model to allow room for the splitting or addition of Traffic Analysis Zones (TAZ).

The next topic of discussion was a select link analysis. Select link analysis is used at the Bi-State office to help assess the impact of new bridge locations, verify that the bridges in the model are behaving correctly and etc. A suggested idea on how to display the information was to vary the width of the links based on the volume of traffic being carried on each link.

Also discussed was the topic of socio-economic data and a tool that could create visual displays in the TAZ layer for the different data categories. The tool should also be able to calculate and display the percent change or the difference in base year data versus horizon year data

Interest was shown in creating a tool that will perform routine queries and produce displays for the user. Suggested ideas included display one-way links, thematic mapping of link speeds or capacity, visual display of the difference between free flow speeds & loaded speeds or ground counts & loaded volumes, and etc. Such a tool should help reduce the time needed to verify the characteristics of the network; especially for a user that is new to GIS.

## **East Central Intergovernmental Association**

August 13, 1999

Attending: Steve Williams  
Richard Storm  
Jerry Shadewald

The meeting with Steve Williams confirmed much of the same material that was discussed at the Bi-State office with Lalit. The new material that surfaced included a tool that displayed the one way links & direction, allowing the users to choose the impedance for the shortest path tool, having an automated procedure the checks that the link attributes are similar for links contained within a segment, and displaying the select link analysis results at the polygon level (thematic mapping of TAZ layer for the origin zones and then buffering the destination nodes).