

July 2, 1999

Attendees: Dr. Souleyrette
Dr. Anderson
Jerry Shadewald
Richard Storm

Prioritize with Help of Users/Advisory Committee

- Vary the number of trip purposes
 - Over 10 is a problem
 - 16 is max
- Centroids
 - Re-number
 - Add
 - Delete
- Update/Re-number Automatically in ArcView
 - Create a dynamic relationship between the node numbers in ArcView and any exogenous tables or data (i.e. trip generation, E-E trip table, productions and attractions table). May need to find a new scheme for keeping track of relationship between node numbers and data.
- Turns
 - Save turns (not manually if possible)
 - Turn Penalties
 - Turn Prohibitors
- Select Link Analysis
- Screen Lines
- Cut Lines
- Origin Destination Desire Line
 - (Where do people want to go, what links do they have to use to get to their destination.)
 - Producing desire lines for multiple TAZs (If a set includes three TAZs, do you use three sets of desire lines or one set?)
- Visual Displays of Shortest/Optimal Path
 - Some assignment methods use an iterative process. The question then becomes for which iteration do you want to display the shortest path.
- Ability to Visualize Sequential Modeling
- From Node Time Radius (show TAZs five minutes away)
- Development of Proper Penalties for Travel Times and Route Selection
- Fratar Model vs. Gravity Model
- Creating Tranplan Modules
 - User Created = *User.in*
 - Default Options = *Default.in*
 - Allow User to Select Certain Options = *Hybrid.in*
- Explaining or Referencing Certain Tranplan Options
 - (i.e. Large vs. Small Coordinates)

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Tranplan Module's Importance for GIS-T Interface			
Tranplan Category	Tranplan Module	Level of Importance to Iowa Modelers	Potential Impact to GIS-T Interface
Models:	Gravity Model	High	High
	Calibrate Gravity Model	Med. (one time use)	
	Multi-Person Gravity Model Preprocessor	Low	
	Fratar Model	Low	
	Modal Choice	Low	
	Calibrate Modal Choice	Low	
Networks:	Build Highway Network	High	Med.
	Macro Highway Network Update		
	Build Cost User Network		
	Extract Subarea Network	Med.	Possible solution to re-numbering of centroids
	Build Transit Network	Low	
Paths:	Highway Selected Summation	High	
	Build Transit Paths	Low	
	Transit Selected Summation	Low	
	Build Intrazonal Impedances	High	
Loading:	Load Highway Network	High	
	Load Highway Selected Links		Use for Select Link Analysis
	Stochastic Highway Load		
	Equilibrium Highway Load		
	Build Selected Link Trip Table		Use for Select Link Analysis
	Analyze Multiple Selected Links		
	Extract Subarea Trip Table		Possible solution to re-numbering of centroids
	Load Transit Network	Low	
	Load Transit Station to Station	Low	

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Tranplan Module's Importance for GIS-T Interface cont'd			
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Matrix Utilities:	Matrix Update	High	Low
	Matrix Manipulate	High	Low
	Matrix Compress		?????
	Matrix Transpose	High	Low
	Matrix Expand		?????
	Build Trip Table	High	
	Build Fare Matrix		
Reporting:	Report Highway Network		
	Report Highway Paths	High	Display Shortest Path
	Report Highway Load		
	Report Highway Network Summary		
	Report Highway Incremental Summary		
	Report Complex Weaves		
	Report Transit Load		
	Report Matrix		
	Report Matrix Comparison		
	Report Corridor Volumes		
	Report Network Accessibility		
	Report Trip Length Frequency		
Plotting:	Plot Highway Network	Low	None
	Plot Highway Paths	Low	None
	Plot Highway Load	Low	None
	Plot Transit Network	Low	None
	Plot Transit Paths	Low	None
	Plot Transit Load	Low	None