IMPROVING THE USER EXPERIENCE

SERPM 6.5.2

Enhancements and Usability Upgrades

Whitehouse Group®

Wade White

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TODAY'S PRESENTATION

- Scope of Model Enhancements

- Simplifying Installation

- Combining Run Option Variations

    - Time-of-Day

    - Highway Only

    - Districting Choices

- More "Automation" and Additional QC Procedures

- Improve Run Time and Simplify User Experience

- Optimize for Multi-Core (Cluster) Execution

Quick Walk Through of Terms

- Cube Catalog
- Application
- Scenario
- Scenario Manager
- Work Space
- Keys
- Directories
- User Type
  - Applier
  - Developer

FSUTMS

Southeast Regional Planning Model (SERPM) 6.5.2

Florida Standard Urban Transportation Model Structure

Application: [SERPM 6.5.2 ▼]

General Model Run Settings

☑ Initiate Cube Cluster at Model Start

☑ Delete Temporary Outputs If Model Runs Successfully (saves space)

☐ Highway Only Run

Scenario-specific Settings

Description of Alternative	SERPM65 Model
Year (2 digits)	05
Alternative (1 Letter)	R
Input Data Directory	C:\FSUTMS\D4\SERPM652\input.sub\IN-05R
Output Data Directory	C:\FSUTMS\D4\SERPM652\output.sub\out-05R

FSUTMS

Southeast Regional Planning Model (SERPM) 6.5.2

Florida Standard Urban Transportation Model Structure

Application: [SERPM 6.5.2 ▼]

Other Settings Commonly Changed (PROFILE.MAS)

Enter Link(s) for Select Link Loadings and Matrices	407-408
Traffic Count Year Used in HEVAL Validation Summary	2005
Home zone for path skimming	3245
Transit Fare Structure BASIS	BASE

Other Settings Not Commonly Changed (PROFILE.MAS)

Model Convergence Settings

Terminal Times

External Model Settings

Transit Model Settings

Time-of-Day Factors

Toll Model Settings

Capacity Adjustment Factor for HOT Lanes	1
Minumum Toll rate for HOT Lanes	0.12
Impedance units per dollar of toll	0.079
Maximum Toll rate for HOT Lanes	0.25
Travel Time Values and Vehicle Operating Cost Base Year	2004
Travel Time Values and Vehicle Operating Cost Analysis Year	2005

FSUTMS

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Subarea Analysis Settings

Select How To Run the Model (Zones vs. Districts), Districts Reduces Run Time

Your Selection Is: | xx

xx=Entire SERPM Region as Zones
BO=Broward as Zones, elsewhere as Districts
PB=Palm Beach as Zones, elsewhere as Districts
MD=Miami-Dade as Zones, elsewhere as Districts
AL=Entire SERPM Region as Districts

To Apply a User-Defined Subarea/Windowed Network:

1. Open the "Network S65_{Year}.NET" from the Data/Inputs Pane to the Left.

2. Select "Node/Compute" and then set the value of DETAIL=0, (All Items Now) then click on "Apply"

3. Define a polygon for the subarea of interest [Polygon/New or Polygon/Restore]

4. Select "NODE/COMPUTE" DETAIL=1 for the subarea (All Items Inside Polygon Now) then click "Apply"

5. Save the network and check the "Use My Defined Windowed Subarea" Box below

☐ Use My Defined Windowed Subarea

| OK | Cancel | Next... | Back... | Run |

FSUTMS

Southeast Regional Planning Model (SERPM) 6.5.2

Florida Standard Urban Transportation Model Structure

Other Settings Commonly Changed (PROFILE.MAS)

☐ Run Selected Link Procedures

Enter Link(s) for Select Link Loadings and Matrices	407-408
Traffic Count Year Used in HEVAL Validation Summary	2005
Home zone for path skimming	3245
Transit Fare Structure BASIS	BASE
Origin zone for path skimming	1180
Destination zone for path skimming	1184

Other Settings Not Commonly Changed (PROFILE.MAS)

Maximum Active Internal Zone Number	4166
Number of internal zones	4200
Total number of zones including internal and external	4284
Highest node number permitted	35000
Regional Population to Employment Ratio	2.097
Coordinate units per mile	5280

Model Convergence Settings

Maximum number of free-flow attraction iterations	40
Maximum number of congested attraction iterations	40
Max number of initial equilibrium assignment iterations	30
Max number of WARMUP equilibrium iterations	15

OK   Cancel   Next...   Back...   Run

Usability Enhancements| SERPM 6.5.2

WHAT IS INCLUDED IN DISTRIBUTED EXECUTABLE

- SERPM 6.5.2
  - 2005 Data Sets
  - 2035 Data Sets & Updates
  - User-Programs- Automatically Installed
  - Model Catalog, Applications and Scripts
  - Default 2005 Transit Skims (Used in Highway Only)
- Not Included are Model Outputs
- Approximate Size- 600+ mb

DEMONSTRATION

- Let's take a quick tour

QUESTIONS

- Installation Issues
  - Wade White, Whitehouse Group
  - ph : +1 (954) 482-8409
  - fx: +1 (866) 846-5875
  - wwhite@wgianalytics.com
  - www.wgianalytics.com
- Other Support
  - Derek Miura, FDOT District 4
  - Derek.miura@dot.state.fl.us