

AGENDA

ADVANCED FSUTMS-CUBE & SCRIPTING WORKSHOP

Day 1: 1:00 p.m.

PART 1

Lesson

Description

Workshop Introductions

- 1 **Overview of Cube & FSUTMS Standards**
Computer Workshop: Overview of Cube
 - *Optional Exercise 1.1 – Open up Olympus in Cube*
 - *Optional Exercise 1.2 – Switch between Applier and Developer Mode*
 - *Optional Exercise 1.3 – Creating a New Scenario*
 - *Optional Exercise 1.4 – Executing the Scenario Manager*
 - *Optional Exercise 1.5 – Map a Model to the Launcher*

- 2 **Relationship between FSUTMS TRANPLAN and FSUTMS-Cube Voyager**

- 3 **From Ext/Gen→ to GENERATION**
Computer Workshop: GENERATION
 - *Optional Exercise 3.1 – Edit Socioeconomic Data*
 - *Optional Exercise 3.2 – Rerun Trip Generation*
 - *Optional Exercise 3.3 – View and Compare Base and Y2002(revised) Trip Generation Outputs*

- 4 **From HNET/HPATH→ to NETWORK**
Computer Workshop: NETWORK
 - *Exercise 4.1 – Editing a Network Using the Automatic Intersection Option*
 - *Exercise 4.2 – Selecting a Turn Penalty/Prohibitor Set*
 - *Exercise 4.3 – Rerun the Highway Network Step*
 - *Exercise 4.4 – Display Highway Paths*

- 5 **From DISTRIB→ to DISTRIBUTION**
Computer Workshop: DISTRIBUTION
 - *Optional Exercise 5.1 – Rerun Trip Distribution Step*
 - *Exercise 5.2 – Map Highway Desire Lines*
 - *Exercise 5.3 – Map Transit Desire Lines*
 - *Exercise 5.4 – Develop Point/Node Charts*

- 6 **From TNET/TPATH→ to TRANSIT**
Computer Workshop: TRANSIT
- Optional Exercise 6.1 – Re-Run Transit Network Step

- 7 **From MODE→ to MODE SPLIT**

- 8 **From HASSIGN/TASSIGN→ to ASSIGNMENTS**
Computer Workshop: ASSIGNMENTS
- Exercise 8.1 – Save Turn Volumes and Re-Run Trip Assignment Step
- Exercise 8.2 – Map Highway Traffic Flow
- Exercise 8.3 – Map Transit Boardings

- 9 **Advanced Tools Not Using Scripts**
Computer Workshop: Advanced Tools
- Exercise 9.1 – Select Link/Zone Analyses Using a Path File
- Exercise 9.2 – Export Transit Stops to a Shapefile

Summary of Day 1 (End 5:00 p.m.)

Day 2: 8:30 a.m.

PART 2

<u>Lesson</u>	<u>Description</u>
10	Cube Voyager Modular Structure
11	Scripting Basics
12	Creating a 4-Step Modeling Process in Cube Computer Workshop: 4-Step Modeling Process - Exercise 12.1 – Creating an Application in Application Manager - Exercise 12.2 – Creating a Catalog in Scenario Manager - Exercise 12.3 – Adding Applications, Keys, Input/Outputs, Reports and Scenarios in Scenario Manager

Summary of Day 2 (End 5:00 p.m.)

Day 3: 8:30 a.m.

PART 2 (CONT'D)

<u>Lesson</u>	<u>Description</u>
13	GENERATION (Trip Generation) <i>Computer Workshop: GENERATION</i> <ul style="list-style-type: none">- Exercise 13.1 – Modifying the Trip Generation Model to calculate Resident Population per Dwelling Unit- Exercise 13.2 – Referencing Look-Up Tables to Apply Trip Rates
14	NETWORK (Building, Comparing, and Manipulating Highway Networks) <i>Computer Workshop: NETWORK</i> <ul style="list-style-type: none">- Exercise 14.1 – Modifying Network Script to Add Vfactors- Exercise 14.2 – Modify Loaded Network to Calculate Total Volume and AADT- Exercise 14.3 – Merging Networks
15	HIGHWAY (Pathbuilding, Skimming, and Loading) <i>Computer Workshop: HIGHWAY</i> <ul style="list-style-type: none">- Exercise 15.1 – Modifying the Path Building Script- Exercise 15.2 – Creating Incremental Highway Assignment Script- Exercise 15.3 – Creating Selected Zone and Selected Link Analyses- Exercise 15.4 – Saving Turn Volumes
16	DISTRIBUTION (Trip Distribution) <i>Computer Workshop: DISTRIBUTION</i> <ul style="list-style-type: none">- Exercise 16.1 – Creating a New Trip Distribution Module- Exercise 16.2 – Fratarling a Matrix
	Summary of Day 3 (End 5:00 p.m.)

Day 4: 8:30 a.m.

PART 2 (CONT'D)

<u>Lesson</u>	<u>Description</u>
17	PT (Public Transport Building and Assignment Functions)
18	MATRIX (Demand Modeling and Matrix Manipulation) <i>Computer Workshop: MATRIX</i> <ul style="list-style-type: none">- Exercise 18.1 – Creating an External Module by Converting a .DBF File to a .MAT File- Exercise 18.2 – Converting a Person Trip Table to a Vehicle Trip Table- Exercise 18.3 – Creating a Time-of-Day Vehicle Trip Table- Exercise 18.4 – Compressing Zones into Districts- Exercise 18.5 – Converting a Matrix (.MAT) File to a .DBF File- Exercise 18.6 – Converting a Text (.TXT) File to a .DBF File
19	PILOT (Model Flow Control) <i>Computer Workshop: PILOT</i> <ul style="list-style-type: none">- Exercise 19.1 – Creating a Pilot Script File to Create an Input Directory and Copy Input Files to the Application Directory
20	Troubleshooting <i>Computer Workshop: Troubleshooting</i> <ul style="list-style-type: none">- Exercise 20.1 – Troubleshooting With Report Files Course Summary - Evaluations Adjourn (End 12:00 p.m.)