

Training Course: Simulating with Aimsun Next

Customized for the University of Florida Transportation Institute

DAY 1

- 1. Editing a model
 - Geometry, traffic demand, signal plans, public transport
- 2. Managing scenarios
 - Dynamic scenarios, experiments and replications
 - Attributes overrides and Geometry configurations
- 3. Outputs
 - Outputs calculation
 - Time series, thematic maps
 - Scenario comparison

Agenda:

- 09:00-10:30 Geometry, traffic demand
- 10:30-10:45 Break
- 10:45-12:00 Signal plans, public transport
- 12:00-12:30 Lunch
- 12:30-14:00 Dynamic scenarios, experiments and replications
- 14:00-15:30 Attributes overrides and geometry configurations
- 15:30-15:45 Break
- 15:45-18:00 Outputs calculation, time series, thematic maps

DAY 2

- 4. Outputs (continued)
 - Outputs calculation
 - Time series, thematic maps
 - Scenario comparison
- 5. Dynamic traffic assignment
 - Dynamic traffic assignment framework
 - Cost functions
- 6. Microscopic network loading
 - Microscopic vehicle behaviour
 - Calibration of a microscopic model

Agenda:

- 09:00-10:30 Scenario Comparison
- 10:30-10:45 Break
- 10:45-12:00 Dynamic traffic assignment presentation
- 12:00-12:30 Lunch
- 12:30-14:30 Dynamic traffic assignment framework, cost functions, stochastic route choice algorithm and parameters
- 14:30-14:45 Break
- 16:45-18:00 Microscopic simulation presentation, Microscopic vehicle behaviour, calibration of microscopic model