

## 5.1.1 Integrating Transportation Models and GIS-T Applications: Challenges and Opportunities

### Presenter

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Transportation models of various kinds have long been the subject of software development and integration projects around the world, and in particular with GIS software. Participants in these endeavors have included transportation agencies at national, state, regional, and local governments, as well as private roadway managers and planning consultancies. This presentation will start with a brief history of past projects, and then explore the waterfront of possibilities, including:

- > Travel demand models
- > Traffic flow models (meso- and micro-simulations)
- > Operations models
- > Evacuation and other special purpose models

The presentation will give examples of locally developed integrations and COTS packages. It will also address specific technical challenges, such as network feature definition and storage.