



Sequential Transportation Modeling Process

- Basic Modeling Steps: “4-Step Process”:
 - 0. Land Use. Transportation facilities & current travel inventory
 - 1. Trip Generation
 - 2. Trip Distribution
 - 3. Mode Split
 - 4. Travel Assignment
- Input: Socio-economic data (Land-use, demographic, historic travel behavior)
 - Data structures
 - Geographic organization
 - Traffic Assignment Zones
 - » Homogeneous Land Uses: [Survey-based trip generators](#), Travel Demand Model for: [NC](#), [Puget Sound](#), [NYC](#), [Urban Goods Movement Model](#)
 - » Geographic Data Structures: [Quad Tree Demo](#), [More Demos](#),
 - » CoPilot Network Editor
 - Data Sources:
 - Housing Data: [US Census](#)
 - Employment Stats: [State Employment Bureaucracies](#)
 - Journey-to-Work [US Census Travel Demand Survey](#) ; List of Data [Sources](#)
 - Household Travel [Survey](#)
 - Commuters between [counties](#)



- Land Use Models [Notes](#) from last week
- Trip Generation Models:
 - [ITE](#) Trip Generation Handbook, Travel Model Improvement Program ([TIMP](#)), commercial trip generation software ([Microtrans](#), [demo](#))
 - An example
- Trip Distribution Models
 - Gravity model: [summary](#),
 - [Notes](#)
- Mode split