

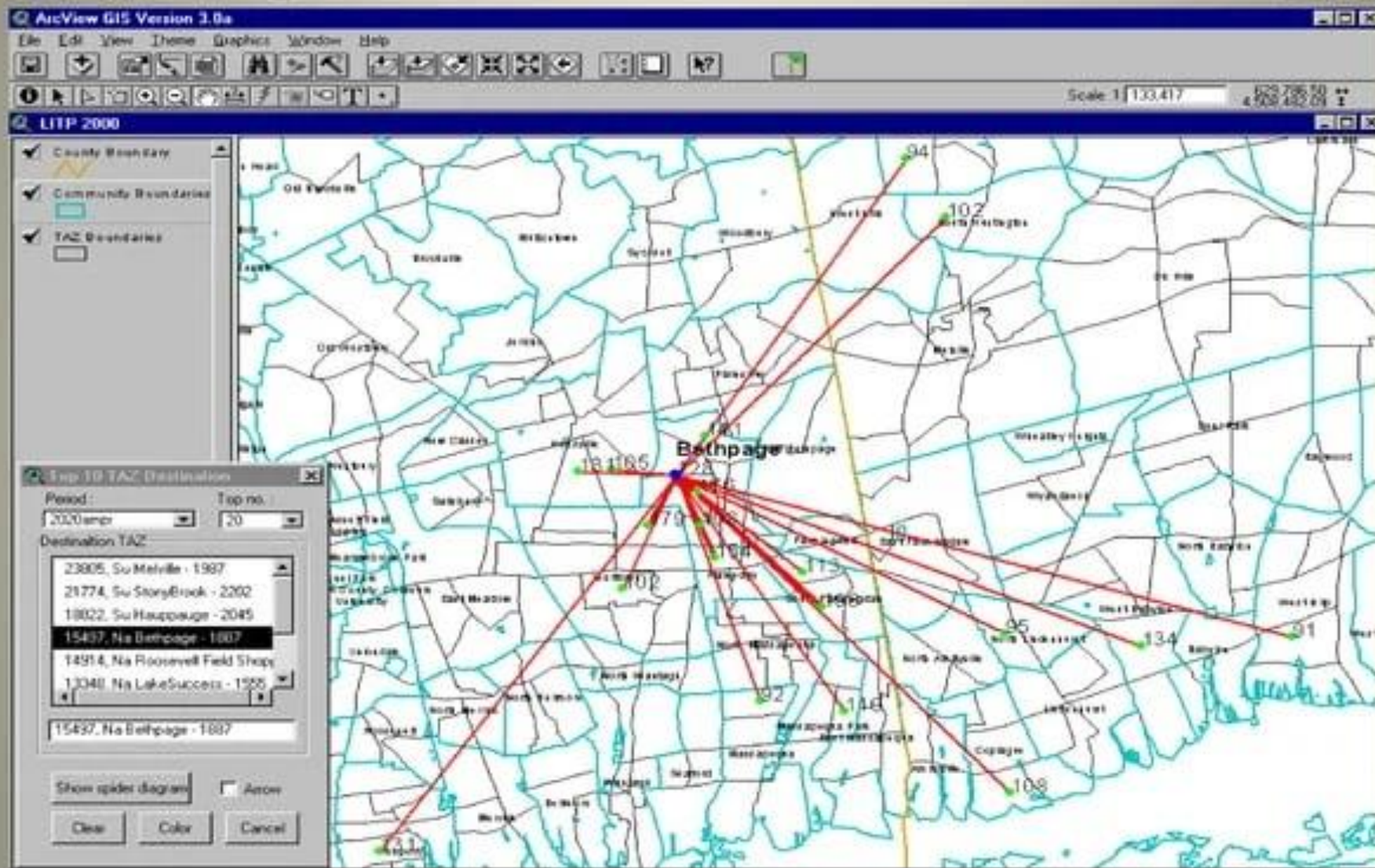
# Transportation Engineering-1

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# Origin and Destination Survey

- The O and D studies of vehicular traffic determines their number, their origin and destination in each zone under study. The data of number of passengers in each vehicles, purpose of trip, intermediate stops made and reasons, actual direction of travel, selection of routes and length of trip etc. also collected.
- Methods of O and D survey are:
  - Road side interview method
  - Licence plate method
  - Return post card method
  - Tag on car method
  - Home interview method

# Origin and Destination Survey



# Traffic Flow Characteristics and Studies

- The measure of traffic flow are **volume, density, and speed**. The data for **traffic volume, traffic density, space headway, time headway, features of road, traffic manoeuvres** etc. are observed here. The basic traffic manoeuvres are diverging, merging, and crossing.
- Density is the number of vehicles occupying a unit length of lane of roadway at a given instant. It is expressed as vehicles per hour.
- The time interval between the passage of successive vehicles moving in the same lane and measured from head to head as they pass on the road is known as time headway.
- The distance between successive vehicles moving in the same line measured from head at any instance is known as space headway.

# Traffic Flow Characteristics and Studies

