Your company will do an analysis and simulation of traffic flow on a highway. The simulation should be able to show steady-state traffic flowing on the highway at normal highway speeds; the effects of slow-down of one car or a blockage including the propagation of speed reduction backwards from the site of the slow-down; oscillatory behavior of speeds on the highway; the effect of “gaper block” or small amounts of slowing of groups of vehicles.

**Deliverables**
1. Formal written report
2. Computer simulation
3. Oral presentation and demonstration of simulation and results

**Grading**
- Each team member of a company will receive the same grade for the final project
- The grades will be based on:
  - The quality of the research and formulation of the problem.
  - The quality of the simulation.
  - The quality of the written report including graphs, charts, formatting, etc.
  - The extent to which you make use of the concepts and techniques learned in this course.
  - The extent to which your report is *technical* as opposed to *qualitative*, that is the use of equations, diagrams, and plots as presentation and analysis tools.