## Writing About Operations Research - Model and Results - Simulation

## 1 Overview

- Recall that:
  - The purpose of the model section is to describe the operations research or statistical model you used to analyze your problem.
  - The purpose of the results section is to present and interpret your results in a reader-friendly way.
- We discussed how you would do this for a regression and optimization models.
- Here, we will focus on simulation models.

## 2 The model section

- Suggested outline:
  - 1. Provide a flow chart of the simulation model.
  - 2. In words, walk the reader through each step of the flow chart, describing the process in depth.
  - 3. Discuss any simplifying assumptions you made.

## 3 The results section

- Suggested outline:
  - 1. Describe the alternative scenarios that you run.
  - 2. Identify performance metrics that will be used to run the model.
  - 3. Run multiple replications of all alternative scenarios and generate the resulting performance metrics. Provide this output in a table.
  - 4. Using the table of performance metrics and/or graphs (e.g., SMORE plot, bar chart, etc.), describe the output in words. Discuss any interesting trends or trade-offs. Describe which alternative is the best and why.