

Team Project 2: Free Choice

Date for presentation is May 1, 2018 in class

This second project is a free choice within the constraints delineated below. The key aspect of this project is that the case study **must** concern itself with **decision making under uncertainty**. Each group picks a case study of its choice from some source – a book, an existing case study, or a paper – or makes up its own case study to prepare and to present to the class.

The following are the **constraints/requirements** imposed in this project:

- Each team must, on its own, decide to pick a project from a source other than the Clemen book used as the second text for ECE 307 or make one up. The source may be another book, a paper, a case study in the Business Library or some real-life story. Any problem selected must have some element of **decision making under uncertainty** and so it is acceptable to pick a case study with deterministic decision making and introduce uncertainty in order to turn it into a case study of decision making under uncertainty.
- Each team's project is **unique** and so there are no duplicate topics.
- **The preparation of the case study formulation** is an additional aspect of the work on this project above those included in the previous project.
- The treatment of **sensitivity – what if** – cases continues to be an important part of the project
- **All the other ground rules from Project 1** continue to hold.

Teams

Team 1: Benjamin Cannistraro, Guneev Lamba, Jiawen Chen, Paul Jensen and Vincent Murphy

Team 2: Ruijie Qi, Karl Mulnik, Ryan Plyman, Lauren Klindworth and Kshithij Kamal

Team 3: Mason Weigand, Jesse Thoma, Yihao Yang and Rohan Mohapatra

Instructions

1. Each group has the charge to **pick** a team leader.
2. **Work** together via a strong collaborative environment to pick a case study for preparation for the project.
3. **Formulate** carefully the assumptions to be used in the analysis. For each assumption that is introduced, please **provide** a rationale for its reasonableness and its necessity.
4. **Plan and prepare** an effective oral presentation of your group's analysis and the set of your recommended actions. Please pay attention to the "robustness" of the recommendations and address the need for sensitivity analysis.

5. Each group will be given at most 25 minutes for presentation including Q and A. I encourage each of you to ask questions.
6. **Document** your work and **prepare** a summary report. Report serves as a comprehensive statement of the problem in the case study, the adopted solution methodology and the proposed recommendations.
7. Please pay attention to sensitivity information and **prepare** results for responding to possible *what if* questions.
8. I request each group to hold a brief meeting with me to discuss the scope and nature of the project. The meeting can take place at the earliest convenience of the group.
9. All teams must participate in the presentations and all team members must be present. The entire class must be at all the presentations.
10. This project, together with Project 1, makes up *at least 10 % of the class grade*.