**Jersey Shore Hospital: Improving Workflow, Patient Flow, and Paper Flow**

**Overview**
The Jersey Shore Hospital currently has three operating rooms and an endoscopy suite in its surgical suite. Only two of the three operating rooms, however, are currently being utilized for surgeries. The third operating room is simply being used for storage. Jersey Shore Hospital presented the problem of opening the third operating room. It wants to know the feasibility of opening this room along with any challenges that might occur. One of the biggest issues Jersey Shore Hospital faces is the fact it already has to operate with its same day and recovery beds near capacity.

**Objectives**
The main objective of the Jersey Shore Hospital project is to complete a feasibility and profitability analysis of utilizing the third operating room in the hospital. The patient flow through the same-day room will be reanalyzed accounting for the additional patients that the third operating room will generate. A new layout for the same-day and recovery rooms will be recommended. The third operating room will be evaluated to determine the best types of surgeries to perform in the space available.

**Approach**
- Problem Clarification
- Site Visit
- Data Gathering
- Historical Data Analysis
- Layout Option Brainstorming
- Simulation using ARENA
- Verification/Validation of models using t-tests

**Outcomes**
- The third operating room will be utilized as the endoscopy suite as well as for minor surgeries.
- The hospital will be able to set up a separate, more private recovery room in the old endoscopy suite.
- Two more same day beds will be added to the same day unit to reduce the utilization of the beds.
- The hospital will be able to consider hiring a urologist to increase the different types of surgeries that can be performed.