Validating a new Hospital Building Master Plan

Key Points
-Future state plan validation
-VA NVA identification to shorten lead time
-Impact of change in distance between departments
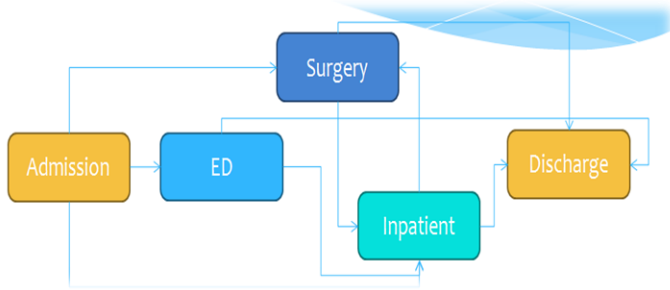
Client's Challenge_____
- The new facility should accomodate the projected number of patients
- Bed / resource requirements
- Identification and quantification of bottleneck areas
- It can help in adding more space / counters in these areas
-Visualizing the entire hospital if integrated

PMI's Approach_____
- Analysis of Data, building the model and verification
- Separate models made for each department
- Analysis of baseline model results
- Bottleneck identification
- Individual models' integration
- Layout distance sensitivity analysis

Findings & Recommendations_____
- Hospital capacity (to serve 61000 patients/year) validated
- Integrated model found to have concerns in Common rooms (named RIO)
- RIO found to be the bottleneck due to its capacity , and Patient In-System Stay time (lead Time)
- Existing RIO capacity increased by 5 beds

Patient Route	Average Throughput per day (No. of Patients)
ED	78
Surgery	6
Inpatient	6
ED to Inpatient	26
Surgery to Inpatient	4
Inpatient to Surgery	2
Overall Throughput	122
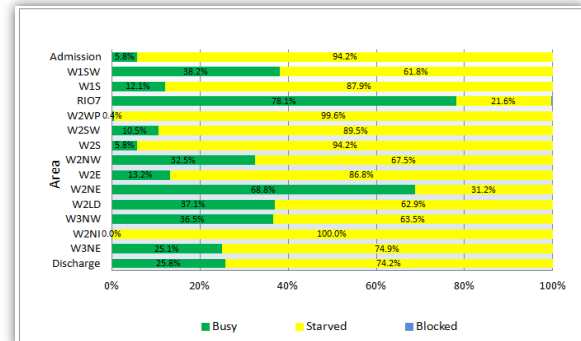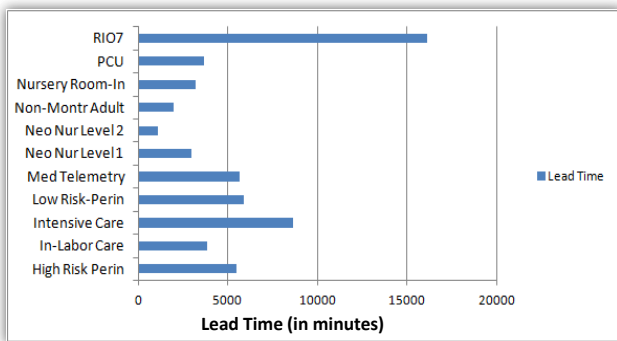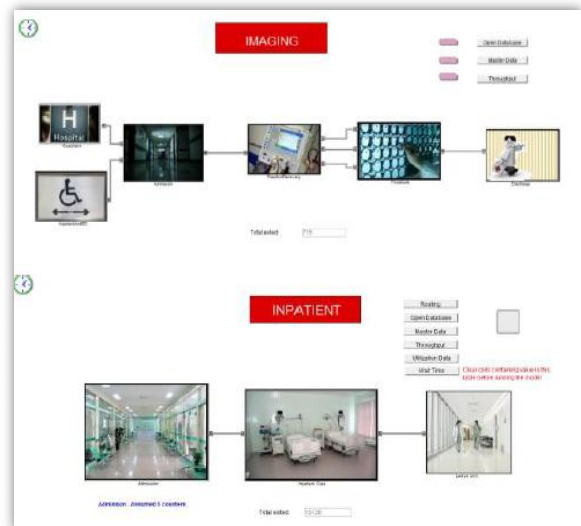
*Data shown here has been modified to protect client confidentiality

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