

# MedModel<sup>®</sup> Optimization Suite

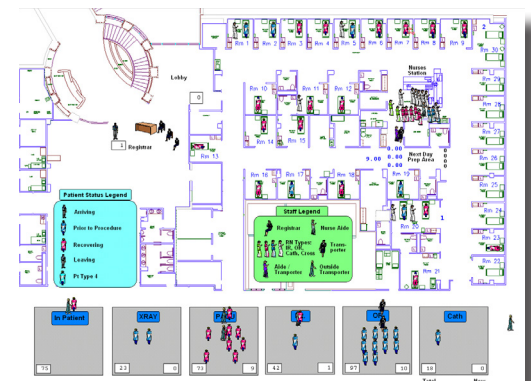
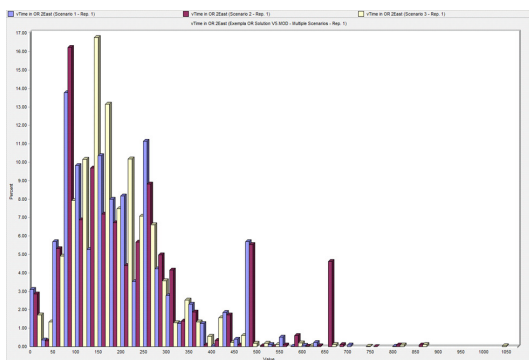
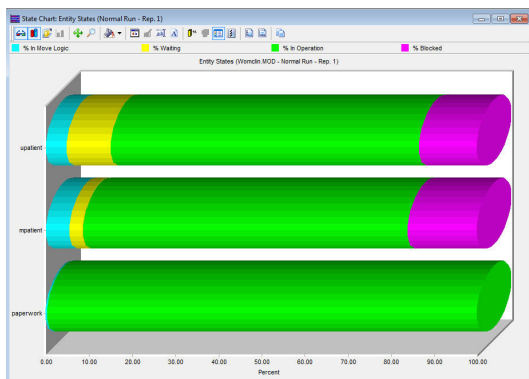


**Improve Clinical Operations and Patient Flow throughout the hospital while eliminating the associated risks.**

The MedModel Optimization Suite is a discrete-event simulation technology that helps you to make better decisions faster. It has been designed specifically for the healthcare industry to evaluate, plan, and design improvements to healthcare processes within key, high volume, high revenue areas of the hospital as well as system wide patient flow. It empowers you to accurately replicate complex real world clinical processes, conduct predictive performance analysis on potential changes, then optimize the system based on your key performance indicators.

## Visualize

Create a dynamic, animated computer model of your clinical environment from CAD files, process or value stream maps, or Process Simulator models. Clearly see and understand current clinical processes in action. Watch your proposed changes run within the model to gain a better understanding of their effects in a specific clinical area or via a higher level patient flow/bed management environment.



## Analyze

Brainstorm using the model to identify potential changes and develop scenarios in order to test improvements which will achieve operational and clinical objectives to quickly improve the delivery of care within your institution. Evaluate your current operations or design a new one in a risk free simulated environment. Understand real-life system behavior with all the variability and interdependencies of an actual healthcare facility. Analytical output reports and charts are automatically generated to verify improvements in the delivery of care through objective, statistical methods long before money and staff time are spent in implementation.

## Optimize

Determine the most effective course of action based on scenarios developed in the analyze phase. Choose the optimal scenario to implement into your facility, resolving issues such as:

- Patient Flow
- Bed Management
- Facility Design
- Low Productivity
- Transition Planning
- Future Staffing Requirements
- Equipment Planning
- Logistical Analysis
- Emergency Preparedness
- Planning for Future Changes



For more information visit [BigBear.ai](http://BigBear.ai) | [Info@BigBear.ai](mailto:Info@BigBear.ai)

## MAKE BETTER DECISIONS FASTER

MedModel provides administrators and managers the opportunity to test new ideas for system design or improvement in the delivery of care before committing the time and resources necessary to build or alter the actual system.

MedModel focuses on issues such as:

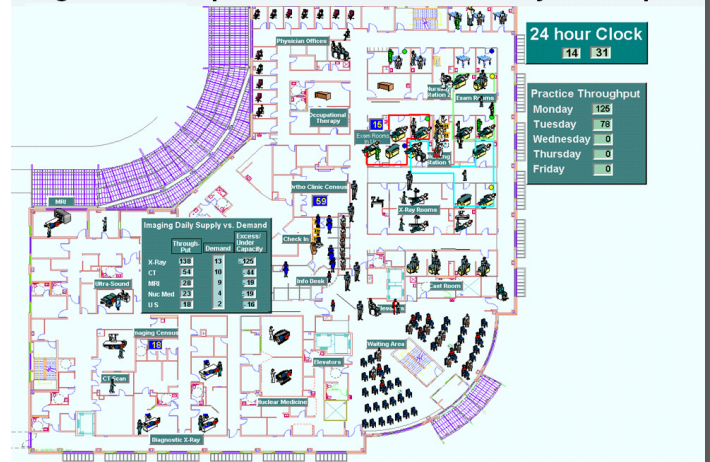
- Resource Utilization
- System Capacity
- Patient Flow within a specific clinical area
- Patient Flow throughout the hospital
- Constraints for rapidly changing patient demographics.

By modeling the important elements of a hospital or clinic, healthcare leaders can experiment with different operating strategies and designs to achieve the best results for their patients.

## Clients

- Carilion Health System
- Dana Farber Harvard
- Cancer Center
- St. Louis VAMC
- Baylor Health System
- HCA
- Intermountain Health Care
- Miami Valley Hospital
- Sisters of St. Francis
- Health System
- Shands Health System
- Massachusetts General
- CHOP
- Emory Healthcare

Figure 2 – Snapshot of Model on Tuesday at 2:31pm



## MEDMODEL SIMULATION BRINGS YOUR PROJECT TO LIFE

In the hands of a trained and experienced analyst, MedModel models can be used to identify inefficiencies in an existing process and test a variety of scenarios. The realistic animation and graphic output results show the behavior of your system under any set of circumstances.

You can run multiple scenarios independent of each other and compare results side by side in the MedModel Output Viewer. This technology provides you with complete flexibility and the perfect simulation platform for modeling nearly any situation, optimizing an organization's performance.

