



SIMULATION FOR PROCESS IMPROVEMENT

Simulation is the art and science of building, verifying, and validating a model whose analysis then leads to system improvements. Simulation enables the comparative evaluation of many performance-improvement proposals with high accuracy, high speed, low risk, and low cost.

At PMC, we use several specialized computer software tools chosen in collaboration with the client when conducting these simulation studies. Simulation helps improve process flow, reduce waiting time, and improve resource utilization. Simulation is an excellent tool for thorough assessment of system and/or facility change driven by rapidly changing client and economic dynamics.



The nature of today's healthcare environment demands an agile patient flow process and an efficient supply chain system. PMC's expertise in simulation design helps clients meet both demands. Advanced computer simulation modeling is an economical decision-making tool that allows you to understand and visualize the effects of changes and their costs and benefits prior to implementation.

Simulation of an existing or proposed system helps clients justify the cost of their decisions to improve the productivity of system design and operational procedures. PMC's "best in class" simulation modeling and analysis methodology can help assess and optimize:

- Patient lengths of stay
- OR capacity and scheduling
- Staffing requirements
- ERP implementation
- Facility design
- Process improvement decision making
- ER flow and design
- Flexible health care decision alternatives
- Finite resource scheduling
- ROI calculations

PMC provides simulation services using major discrete-event simulation software tools such as MedModel, Simu8, Enterprise Dynamics, Arena, Witness, Quest, and AutoMod. We provide consulting, training, and professional workshops using state-of-the-art simulation, analysis, and optimization software. PMC is the complete solution provider for industrial engineering productivity improvement applications.



"DATA-DRIVEN IMPROVEMENT"

PMC is a full-service operations engineering and management consulting firm based in Dearborn, Michigan. For over twenty-five years, PMC has been developing the most innovative productivity solutions in the consulting industry. Today's business climate requires managers to anticipate change before it occurs, so we work to make sure our clients are prepared for the adjustments that the competitive environment demands.

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