## Capacity and Labor Resource Analysis -





**Results** 



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Looking at the throughput chart on the left, the maximum capacity with two blast booths is actually 107 items per month, an increase of fourteen items, still only 50% of what the depot expects their demand, per month, to be in the future.

Once the blast booth process was no longer the primary constraint, it was discovered that labor was the new constraint of operating a system with two blast booths.

The depot's objectives of determining their maximum capacity with the current staffing, and identifying their primary constraints when running at maximum was discovered.

They now know that should an increase in demand become a reality – a possible initiative would be to add an additional blast booth, operated by additional labor staff.

The Labor Utilization Chart shows how labor resources would run over 90% of the time if only an additional blast booth was added to the Paint Shop operation.

Solution

A predictive analysis solution was developed using ProModel ProcessSimulator technology. This technology is a plug-in to MS Visio which enables the creation of simulation models from value stream maps and flowcharts built in Visio. Given the ProModel ProcessSimulation technology, the depot not only achieved its objectives, but proved that simulation is a valuable technology for process analysis, Lean transformation, and continuous improvement. Using our VAO (Visualize, Analyze, Optimize) project methodology, ProModel's certified in-house consultants combined industry experience and model building expertise with proprietary simulation technology to deliver these turn-key solutions. Through methodology and technology, ProModel assisted the depot in making Better Decisions -Faster. 





"Most people spend more time and energy going around problems than in trying to solve them."

— Henry Ford