

PwC Consulting

Operations Analytics Projects



- **Client Business Need**

- Ogden Air Logistics Center Aircraft Directorate provides depot repair, modification, and maintenance support to major aircraft weapons systems. Each year, the workload mix for the three different weapon systems is shifting. To meet customer deadlines at reasonable cost, program managers must compete for Aircraft Directorate facilities and resources. Before simulation modeling was introduced, planning and scheduling was a tedious manual process and there was no analytical tool that integrated all three weapon systems at the top level. This problem is complicated by delinquent aircraft arrivals, varied requirements for depot maintenance, inclement weather, late delivery of repair materials, worker turn-over, routing obstacles, and many other miscellaneous bottlenecks.

- **PwC Solutions**

- PwC designed a simulation model that could be used to analyze strategic resource allocations and process improvements. The model also facilitates analysis of “what-if” scenarios by allowing the user to modify various components of the business. This discrete event simulation model predicts current bottlenecks arising from system variability, complexity, and resource constraints.
- Benefits to the Client
 - Analytical tool for analyzing, understanding, and improving the depot maintenance processes
 - Enables the Aircraft Directorate to provide depot maintenance in a timelier, competitively priced manner