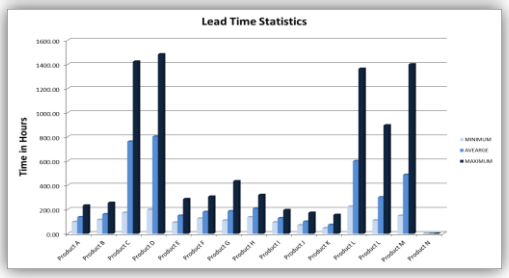
Greenfield Facility - Throughput Validation and Improvement

Key Points

-Batch type production - 14 Product Types

-Impact of Product Mix on system throughput

-Buffer sensitivity analysis



Client's Challenge

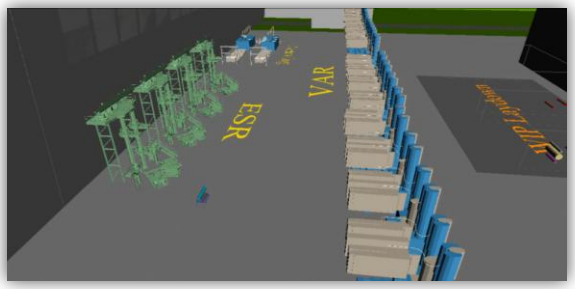
-14 Product types with different foundry flow and product dependent cycle time made it difficult to calculate system's throughput
-Equipment Utilization was highly dependent on Product Mix
-Batch size of a product family - Different across the process flow
-With all the above variations, predicting the required buffer capacities

PMI's Approach

-Data analysis, 3D model building, verification & validation
-Throughput improvement carried out by analysis of product mix
-Sensitivity Analysis carried out on buffer capacity
-Throughput Improvement Roadmap was built to meet expected demand
-Sensitivity Analysis also carried out on buffer capacity for expected demand

Findings & Recommendations

-Facility was unable to meet target throughput
-Throughput showed strong dependence on Product Mix
-With the current setup, max. system throughput was validated to be 18% less then expected
-Number of resources required to satisfy expected demand was calculated
-Required buffer capacities around the facility were suggested
-Average lead time was indicated



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