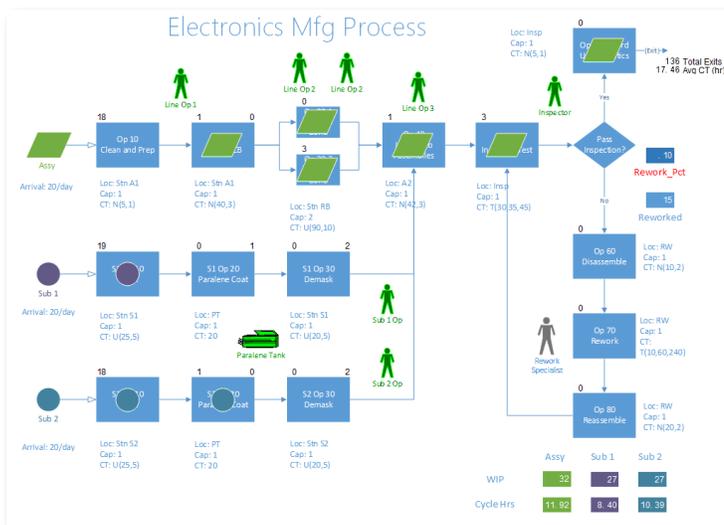




## Process Simulator, our Microsoft® Visio® plug-in, provides rapid model building and scenario analysis enabling optimal operational performance

Static flowcharts, workflow diagrams, and CAD drawings can be transformed into dynamic simulation models that accurately predict process performance measures such as throughput, cycle time, resource utilization, and cost per unit... all in a risk-free virtual environment. It's as easy as V-A-O...

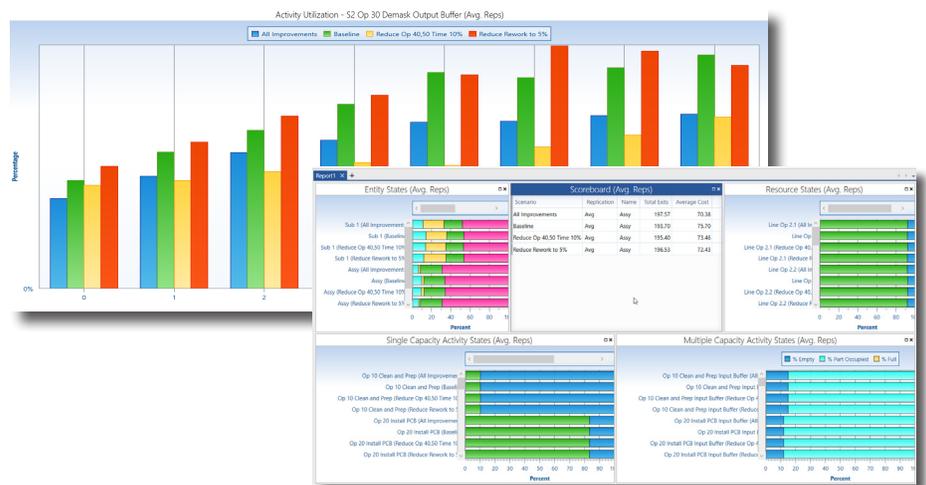


## Visualize

- Easily build simple to complex process models. Then view system performance results via standard reports or export results to Excel or PowerPoint for further analysis.
- See how dynamic conditions such as equipment downtimes or labor absenteeism affect process performance. More importantly, propose and test changes to resolve these problems.
- Watch your processes play out over time to gain a greater understanding of your current or future operating environment.

## Analyze

- Use the standard reports or easily build custom reports to support your individual needs.
- System performance metrics such as throughput, cost, and cycle time are displayed in the animation and the reports.
- Brainstorm using the model to identify potential changes and test improvements.
- Safely consider “out-of-the-box” ideas in a virtual, risk-free environment.



## Optimize

- Perform sensitivity analyses and use Scenario Manager to understand the impact of each system input factor, independent of each other and in combinations, to find the optimal solution.

Scenario Manager

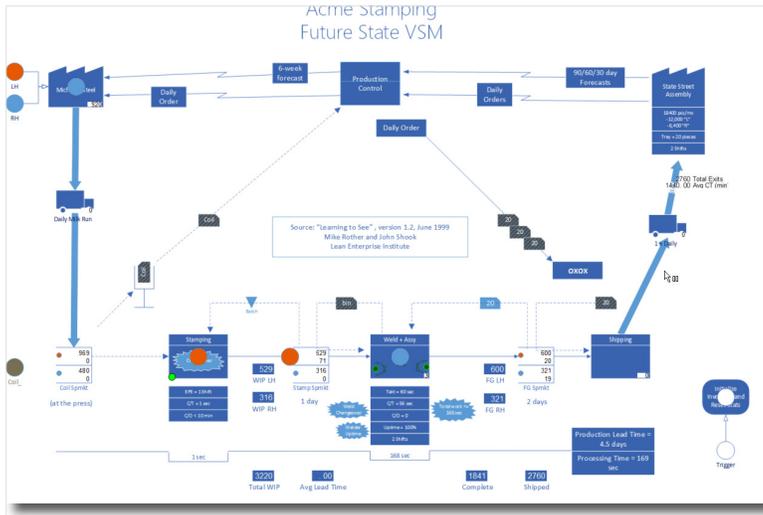
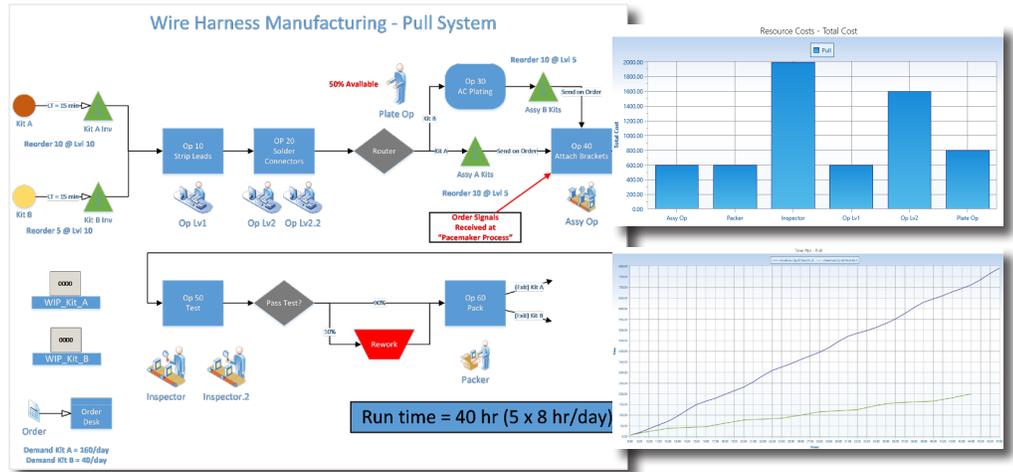
Parameters: Add Parameters, Add Scenario, Show Baseline Values

Parameters	Baseline	Reduce Rework to 5%	Reduce Op 40,50 Time 10%	All Improvements
Simulate Scenario?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Last Run Date				
Op_40_Install_Sub_Assemblies - Time	N(42, 3)	N(42, 3)	N(37.8, 3)	N(37.8, 3)
Op_50_Inspect_Test - Time	T(30, 35, 45)	T(30, 35, 45)	T(27, 31.5, 40.5)	T(27, 31.5, 40.5)
Op_70_Rework - Time	T(10, 60, 240)	T(10, 60, 240)	T(10, 60, 240)	T(10, 60, 240)
Assy AT Op_10_Clean_and_Prep - Quantity	20	20	20	20
Sub_1 AT S1_Op_10_Mask - Quantity	20	20	20	20
Sub_2 AT S2_Op_10_Mask - Quantity	20	20	20	20
Paralene_Tank - Percent Available	80	80	80	80
Rework_Specialist - Percent Available	40	40	40	40
Rework_Pct	0.1	0.05	0.1	0.05

# Use Cases

## Capacity Planning

- Determine the right amount of personnel, equipment, tooling, and WIP to meet demand
- Justify capital expenditures
- Test production schedules

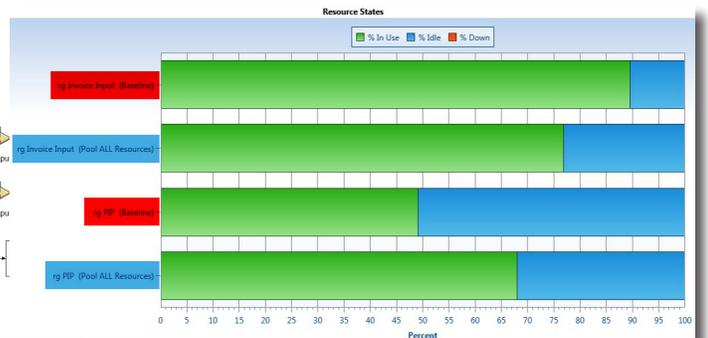
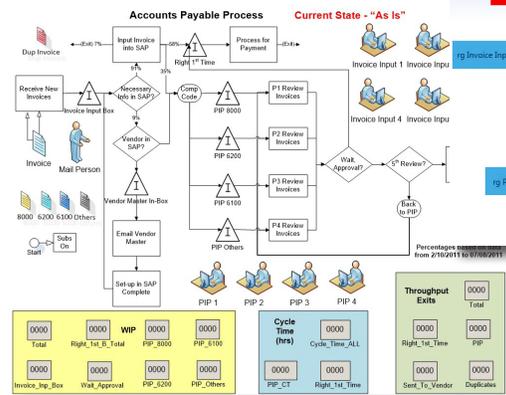


## Lean Six Sigma / Continuous Process Improvement

- Capture value stream maps in Visio to simulate current and future-state scenarios
- Perform "Virtual Kaizen Events" to eliminate disruption and reduce risks of implementing changes on the floor
- Determine what performance gains you can expect before "going live" with process changes

## Back Office | Off-The-Shop-Floor Processes

- Analyze Staffing Options
- Eliminate Bottlenecks
- Decrease Cycle Times



Output chart showing more balanced staff utilization with future state  
 ■(Pool All Resources Scenario) vs. current state ■(Baseline Scenario)

Model of current state accounts payable process