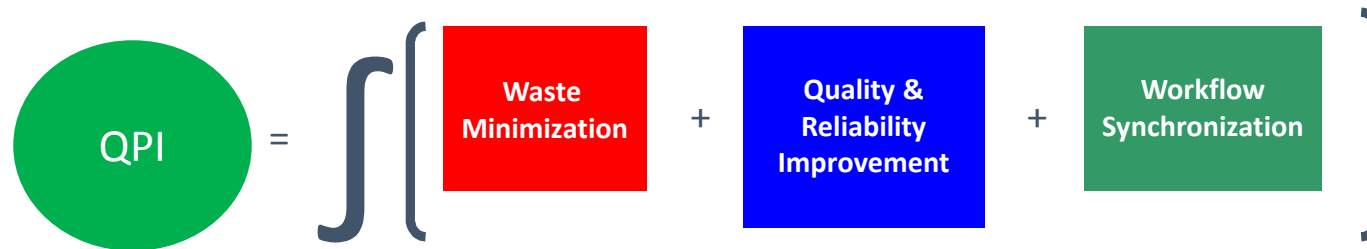


Quantum Process Improvement™ (QPI) Model... ...the components of QPI

At a high level $Y = f(x)$...where x_1 to x_n are the elements that affect Y



Organizational
Effectiveness
Measures

- Process speed and efficiency
- Improved flow
- Productivity
- Cost reduction

- Reduced variation
- Defect reduction
- Asset Productivity
- Business Process optimization

- Throughput (\$\$)
- Inventory (\$\$)
- Operating Expense (\$\$)

Possible
Tools and
Techniques

- 5S
- QCO (SMED)
- Cellular layout
- One-piece flow
- Poka-Yoke
- PQ Analysis
- Routing analysis
- Kanban
- Kaizen
- VSM
- Std. Work
- Visual control
- TPM

- FPY
- Process mapping
- SPC
- FMEA
- MSA
- Process capability
- Regression analysis
- ANOVA
- C & E/FFA
- CAPA
- SIPOC
- ISO 9000
- RCA

- Constraint analysis
- Capacity analysis
- Transfer batch sizing
- Process batch sizing
- Backward planning
- DBR concept
- Training

Developed by Willie L. Carter