Fathom 4

Continuous Process Improvement

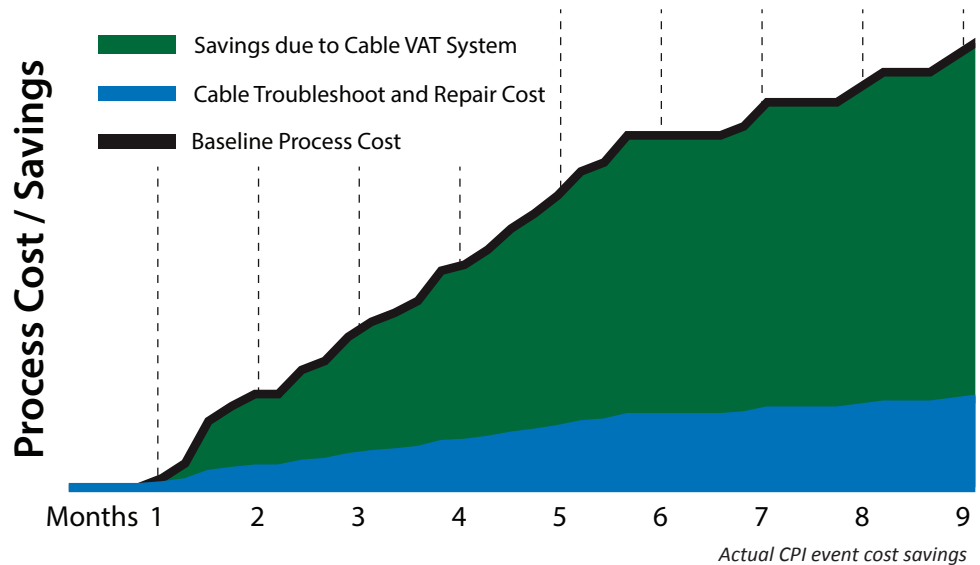**LEAN 6σ** — CONTROL · DEFINE · MEASURE · ANALYZE · IMPROVE

Capability

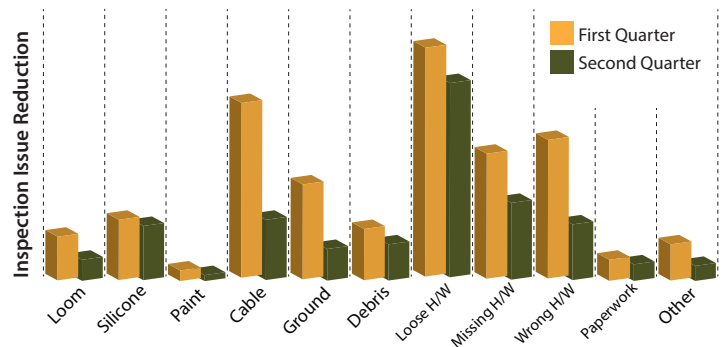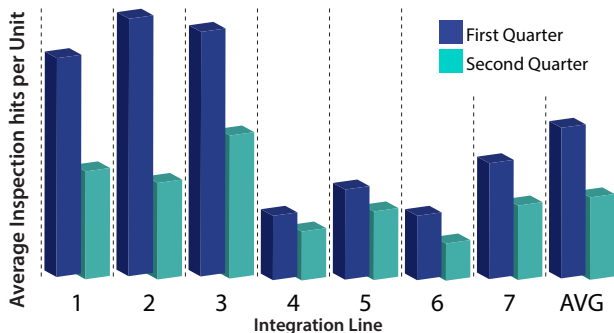Fathom 4 can help your operation save production and labor costs with ease.

The Fathom 4 Continuous Process Improvement (CPI) team combines unique backgrounds, varying viewpoints, and valuable skills sets to bring an educated and efficient approach to:

- Examining pre-existing processes
- Configuring new automation services within projects
- Obtaining specific metrics through maximum use of automated and easy data input processes
- Analyzing data captured
- Establishing long-term and controlled improvements

Fathom 4 has an established quality and performance management system that has been successful for various engineering, full rate systems integration, and logistics/supply projects. We have developed an internal team that conducts focused quality and performance management improvement initiatives, emphasizing low cost and minimal intrusion to the existing work force.

Legend:
- Savings due to Cable VAT System
- Cable Troubleshoot and Repair Cost
- Baseline Process Cost

Y-axis: Process Cost / Savings
X-axis: Months 1 2 3 4 5 6 7 8 9

Actual CPI event cost savings

Our small team uses data collection processes that are web-based and automated to decrease the workload on the actual workers — maximizing the return on your investment.

Y-axis: Average Inspection hits per Unit
X-axis: Integration Line — 1 2 3 4 5 6 7 AVG
Legend: First Quarter, Second Quarter

Y-axis: Inspection Issue Reduction
X-axis: Loom, Silicone, Paint, Cable, Ground, Debris, Loose H/W, Missing H/W, Wrong H/W, Paperwork, Other
Legend: First Quarter, Second Quarter

Platform quality analysis and direct feedback delivers more uniform integration and reduced errors for the end product.
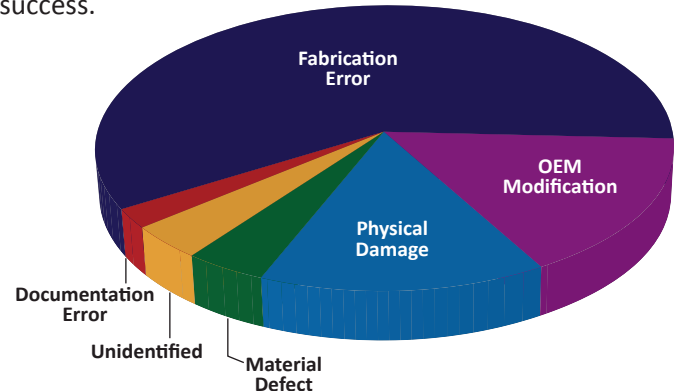
Process Improvement Framework

The CPI team structures our framework around the Lean Six Sigma methodology of Define, Measure, Analyze, Improve, and Control (DMAIC). These five phases enable us to identify waste within a process, establish a process baseline, determine correlations between process components, develop more efficient solutions, train personnel in new procedures, and gain feedback from personnel to ensure lasting success.

- Define — Identify process waste
- Measure — Establish baseline
- Analyze — Determine inefficiencies
- Improve — Deploy process improvement
- Control — Maintain solution

In short, the CPI team's success in continuous process improvement is attributed to a solid approach in obtaining and reporting accurate, valuable analytics, then receiving management and work force buy-in.
We believe work force buy-in to be absolutely imperative.

Thorough analysis of integration issues provides key points of improvement for greatest impact.
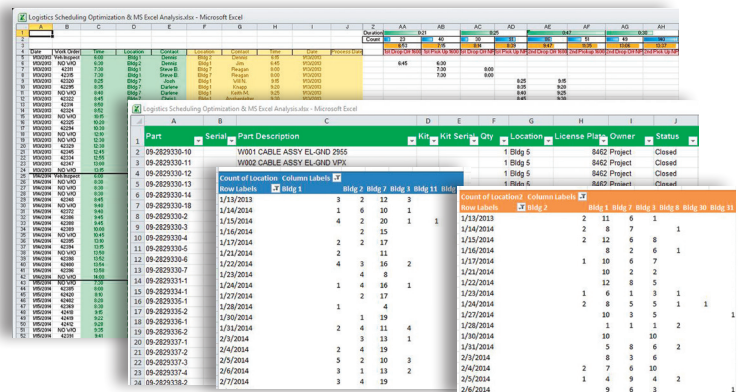
Data Collection and Analysis

The Fathom 4 CPI team has extensive knowledge and expertise in analyzing the various types of raw data gathered from process improvement events. The team collects metrics that add to the overall depth of the analysis through the following methods:

- Product quality inspections
- Process time studies
- Custom, automatic data processing
- Cloud storage databases
- Personnel schedule tracking
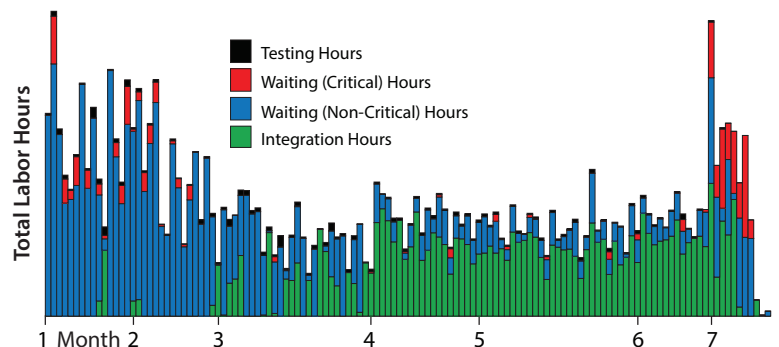- Technician supplied documentation

The team employs the documentation philosophy that data recording should be as paperless and automated as possible. This allows for:

- Real time tracking
- Less human error
- Date / time stamping
- More efficient raw data analysis
- Easier correction of unsound data

The raw data is then consolidated, interpreted, and evaluated to set attainable goals for the process. Results and solutions are tailored to meet the customer's specific needs. The CPI team is skilled in presenting solutions to any audience, including management teams and a highly technical workforce.

Deep analysis through cloud-based and automated solutions produces greatest understanding of inefficiencies to make corrective actions.

Detailed production timelines categorize work performed throughout the project.

We Believe in People
Our Troops. Our Clients. Our Team.

Fathom 4 has a simple mission: Engineering Freedom - for our country, our clients, and our employees. We delight our DoD clients by providing the best value engineering services. Fathom 4 employees are critical members of the DoD programs we support, by being highly professional, competent, industrious, and ethical.

We are a service-disabled veteran-owned small business and an employee-centric company. Fathom 4 was founded on the belief that if we take care of our employees to the best of our ability, then they will do the same for our clients.