

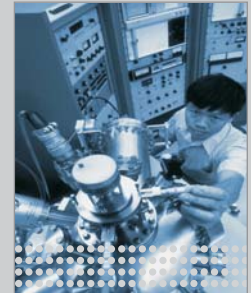
Total Performance Management

Action instead of Reaction - Increasing Manufacturing Performance - Creating Measurable Results

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VALUE STREAM TECHNOLOGY™



' Statistics always come too late '

Increasing quality levels and keeping the plant performance close to one hundred percent are top goals for leading manufacturers. Faster and more efficient manufacturing means higher through-put, better utilization of resources, and a higher revenue and profit margins.

Today, however, many line managers and plant directors need to rely on statistics providing productivity & efficiency information hours may be even days later.

Statistics are nice, but they are always late. Too late to make business decisions or to initiate actions with immediate impact on operations. Issues need to be solved before they result in performance gaps. Every issue minute means loss in productivity and lower profits, but traditional manufacturing execution and data collection systems unfortunately do not address these issues sufficiently.

Data collection alone is a waste of time and money. Only 'pro-active' applications provide information instantly, resulting in action instead of reaction, and pro-activity instead of statistics. Whenever productivity decreases the responsible personnel and management should know it already seconds later, and they are already on their way, resolving the issue.

The product suite Total Performance Management provides performance and issue information instantly to all personnel and management required to be involved. Immediate information flow is being established to maintenance & repair, logistics, material planning, quality, workforce management, and any other departments required.

The application suite is pro-active, easy to use, and provides everything needed for efficient manufacturing and supply operations. Long before the statistics appear on the desks of the people who need to know.





Functions & Features

- Simple 'point & click' in shop floor operations
- Pro-active Machine & Equipment Monitoring™
- Pro-active Line Logistics Monitoring™
- Pro-active Kanban Flex Monitoring™ & Material Shortage Prevention
- Pro-active Resource Monitoring™
- Interactive Performance Calculations
 - Performance Efficiency
 - Equipment Availability
 - Quality Rates
 - Overall Equipment Efficiency Calculation
- Early Warning System & color-coded Constraint Alerts
- Integrated Escalation Management™
- Visibility & Transparency
- Key Performance Indicators fully integrated in Manufacturing Portals™ & Management Dashboard™

The application suite Total Performance Management is fully integrated in Visual Factory™ and all other Value Stream Technology applications, enabling responsible personnel and management to reduce any unplanned performance decrease or downtime.

CellFusion's customers monitor all shop floor activities actively, prevent potential issues, and if actual issues occur, they resolve them immediately, increasing performance drastically and fast.

Higher performance results in fewer interruptions, in smoothed operations, in higher productivity and through-put, and in higher revenue and profit margins.

' The Secret of High Performance '

Value Stream Technology application suite **Visual Factory™** in combination with **Total Performance Management** enables responsible personnel, line and plant management to see instantly, what other manufacturing facilities may see after hours, the next day or even days later, and after time consuming consolidation of shop floor information.

Taking immediate action instead of analyzing what was going wrong some time ago. **The secret of high performance is: being faster than others.**

Simple 'point & click' based functionality provides immediate information flow of manufacturing performance and any kind of shop floor issue. Potential or actual machine down times, material shortages, tool issues, or personnel issues, through-put deviations. All this is captured automatically via Programmable Logic Controllers or **simple and fast with point & click front-ends** in CellFusion's Visual Factory.

The maintenance department can actively **monitor all equipment, machines and tools in the entire plant**, and dispatch repair personnel immediately when shop floor personnel identified machine or equipment issues. The management can monitor any issue and downtime escalated to them automatically with Performance Escalation Management™.

The logistics department immediately receives information about **any logistics or material issue, potential or actual material shortage**, and is prepared to act, before the work stops. **Kanban Flex Monitoring™** provides information about critical deviations in all running supply activities.

Resource issues, breaks, expected or unexpected are captured and available. A fully integrated **Escalation & Action Management™** allows the responsible personnel and management to reduce unproductive time drastically. Supervisors can observe all types of potential and actual issues. **Always one step ahead.**

Due to interactive functionality and information flow line managers and plant directors can view all unexpected deviations in productivity & efficiency instantly using **Pro-active Performance Monitoring™**. The application monitors all activities, issues, and key performance indicators on the shop floor from actual **Through-put** versus planned, **Performance Efficiency, Equipment Availability, Quality Rates, Material Availability, to Overall Equipment Efficiency (OEE)**, and displays this information **real-time**.

Integrated constraints provide color-coded alerts in case deviations are higher than expected (**Early Warning**). Graphs simplify and show the development of key performance parameters during the day.

