

**CONTROL
YOUR PROCESS
VARIABILITY**

SUPERVISOR 1.0

**REMOTE
MONITORING
SYSTEM**

STREAM
PRODUCT FLOW.COM



01010011 01010100 01010010
01000101 01000001 01001101
00100000 00110010 00110000
00101111 00111000 00110000

STREAM 20/80

STREAM 20/80

01010011 01010100 01010010 01000101 01000001 01001101



STREAM SUPERVISOR®

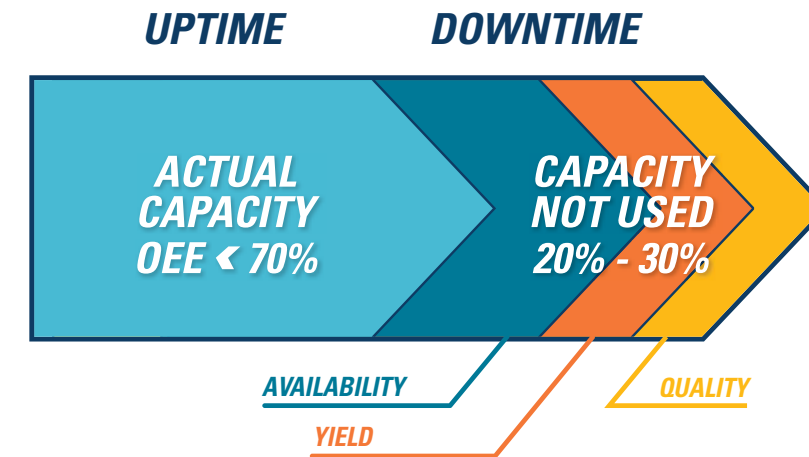
Unlike existing systems which focus their attention on machine breakdowns, this patented new technology monitors Product Flow during Production Processes. By means of single PLC, sensors strategically positioned on the line provide access to the most important factor in High Performance Manufacturing, the Plant Floor.

STREAM SUPERVISOR® can be applied to a wide range of discrete Manufacturing Facilities that include *FILLING AND PACKAGING, MACHINING AND ASSEMBLY, BULK HANDLING AND DISTRIBUTION.*

It is based on the **STREAM 20/80** concept, an innovative methodology that provides solutions to Microstops® that affect yield during Production Processes.



Capacity in a continuous production line is subject to different losses:



SUPERVISOR_{1.0} is a Tool designed for Production Operations that require *INTELLIGENT* and *CONSISTENT* information on the variables that affect Flow in the Process. Unlike other systems that only gather data on Machine breakdowns, this new technology focuses on Product Flow.

Information generated with **STREAM SUPERVISOR®** helps in real-time decisions to increase Actual Capacity.

Some of the Performance Indicators are:



- **OEE**
- **Efficiency**
- **Production rate**
- **Scrap**
- **Uptime**
- **Downtime**
- **Microstops**
- **Other KPI's**

STREAM SUPERVISOR® REMOTE MONITORING SYSTEM

PRODUCTION OFFICE

Operation Monitoring 24 / 7
Reliable Production Data
Statistics and Events
Production Forecast



PLANT MANAGEMENT

Asset and Plant Utilization (OEE)
Order Response Time
Productivity Strategies follow up
Connects to any Enterprise System



Visual Communication
KANBAN

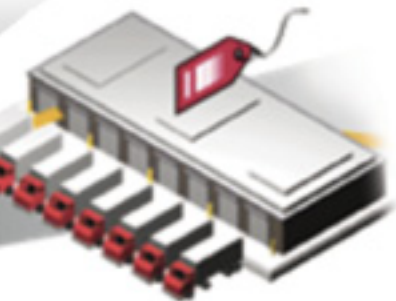


EVENT ALERTS
Immediate Response



IMPROVEMENT TEAMS

Trending Graphs
Balanced Score Cards
Strategy Deployment



INTRA LOGISTICS

Shared Information
Infrastructure Utilization
Supply Chain Optimizer

PLANT FLOOR OPERATION

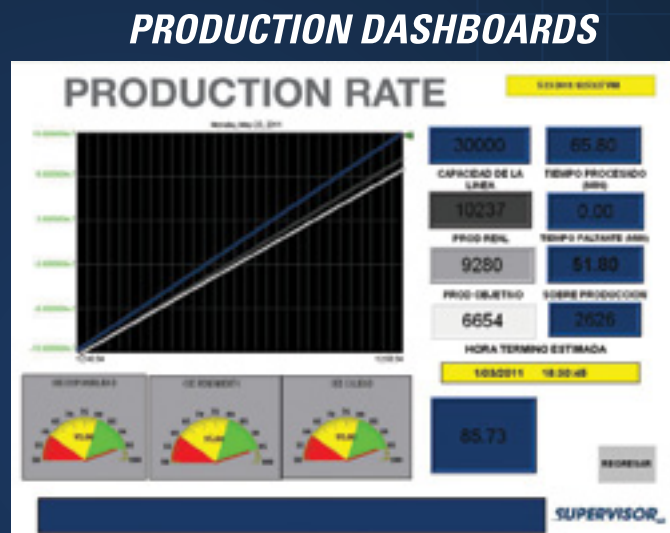
On screen real Time Information
Production Dashboard
Real Time Analysis

SUPERVISOR 1.0

OPERATION TOOLS

OBJECTIVE: Show Real Time Information on Line Performance To CONTROL at Floor Level, Process Variability.

STREAM SUPERVISOR® allows you to monitor what is actually influencing the Product Flow to follow up on Tactics deployed from Improvement Strategies.

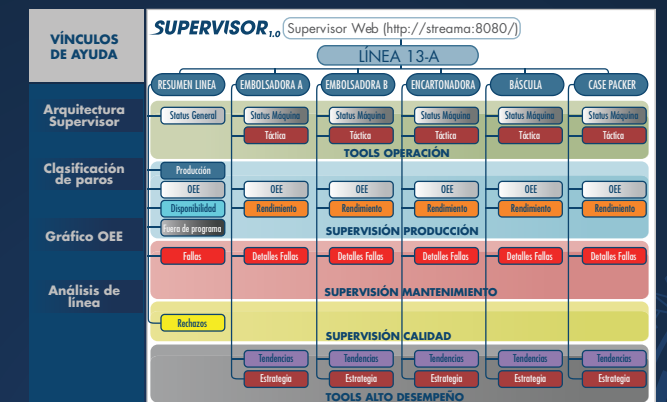
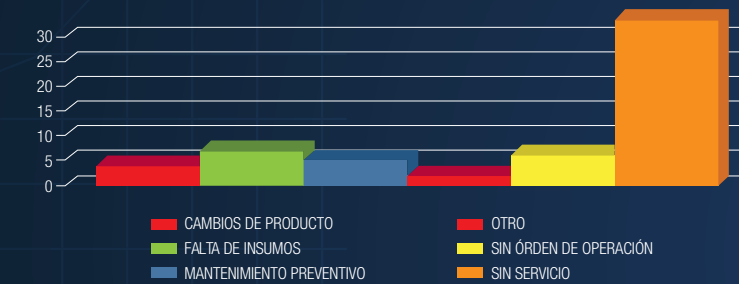


SUPERVISOR 1.0

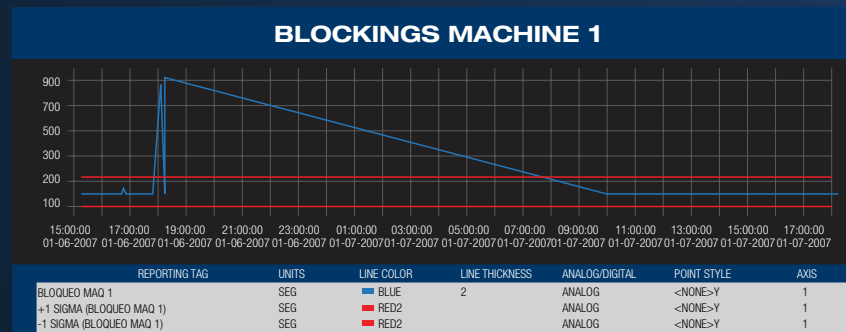
SUPERVISION TOOLS

OBJECTIVE: Improve Planning and Operation throughput with Relevant Historic Information required by Manufacturing Personnel.

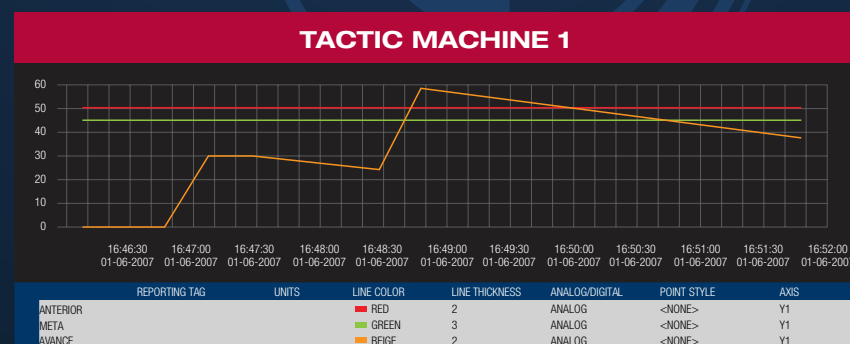
DÍA	TURNO	MÁQUINA	DISPONIBILIDAD%	RENDIMIENTO%	CALIDAD%	OEE
SUNDAY	TURNO 1	MÁQUINA 1	100.00	87.32	100.00	87.32
		MÁQUINA 2	100.00	87.32	100.00	87.32
		MÁQUINA 3	100.00	87.32	100.00	87.32
		MÁQUINA 4	100.00	87.32	100.00	87.32
		MÁQUINA 5	100.00	87.32	100.00	87.32
TURNO 2	MÁQUINA 1	100.00	91.27	97.32	88.82	



MACHINE BLOCKINGS

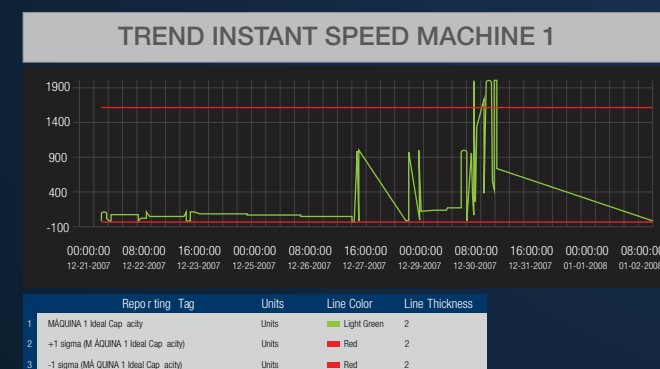


IMPROVEMENT TACTICS



HIGH PERFORMANCE TOOLS

OBJECTIVE: To offer behavior information and six sigma analysis of the fundamental variables and Microstops® to improve yield and throughput.



Trend Graphs and Balanced Score Cards with Six-Sigma

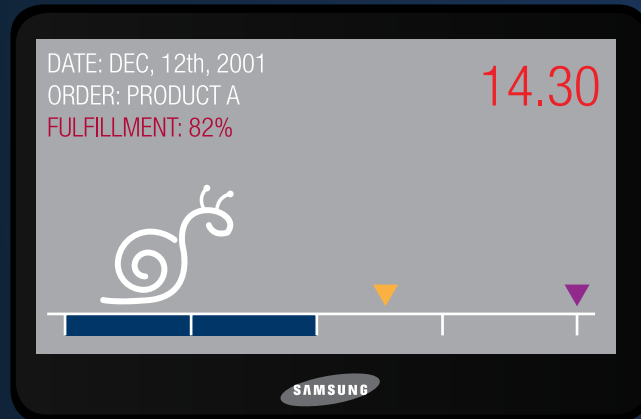
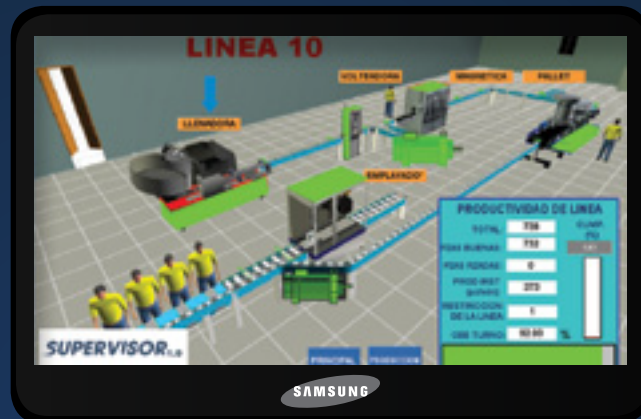
SUPERVISOR 1.0

VISUALIZATION AND ALERTS

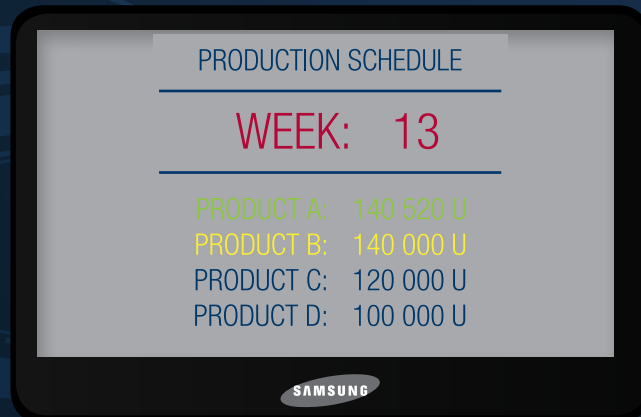
OBJECTIVE: Visual communication and Real Time Alerts with information to everyone involved with Line Performance.

STREAM SUPERVISOR® gives useful information to Production Floor as well as to Operation Offices.

Total **VISUALIZATION** of the Line With Production Status as well As Support Messaging.



Receive variable anomaly events right on your mobile device even before you can write a report.



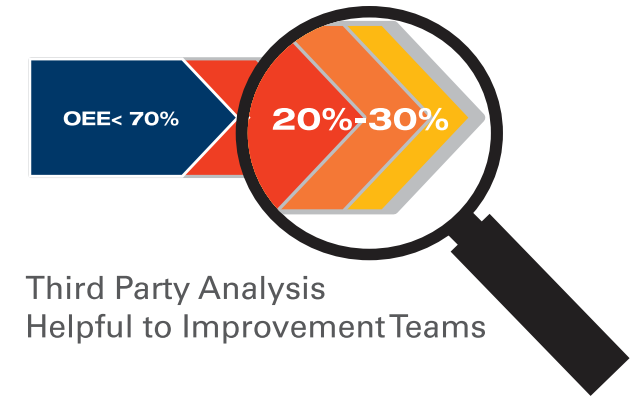
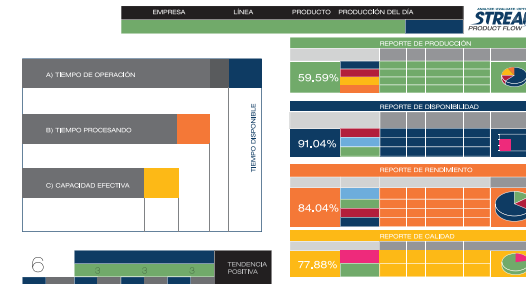
Line 9 Performance 13.56 pm
Programed: 125,000 pzs
Current: 95,000 pzs
Forecast: 86%

SUPERVISOR 1.0

REMOTE ANALYSIS SERVICES

OBJECTIVE: Specialized Engineering groups readily available outsourced for different Locations as well as Global Sites.

AUDIT REMOTE DIAGNOSIS AND INTERPRETATION



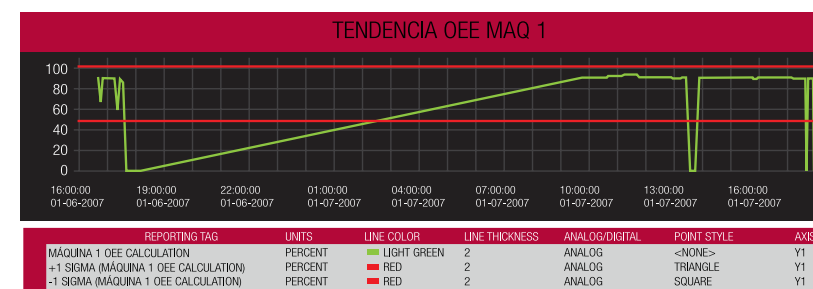
Third Party Analysis
 Helpful to Improvement Teams

EVALUATE INVESTMENT EVALUATION



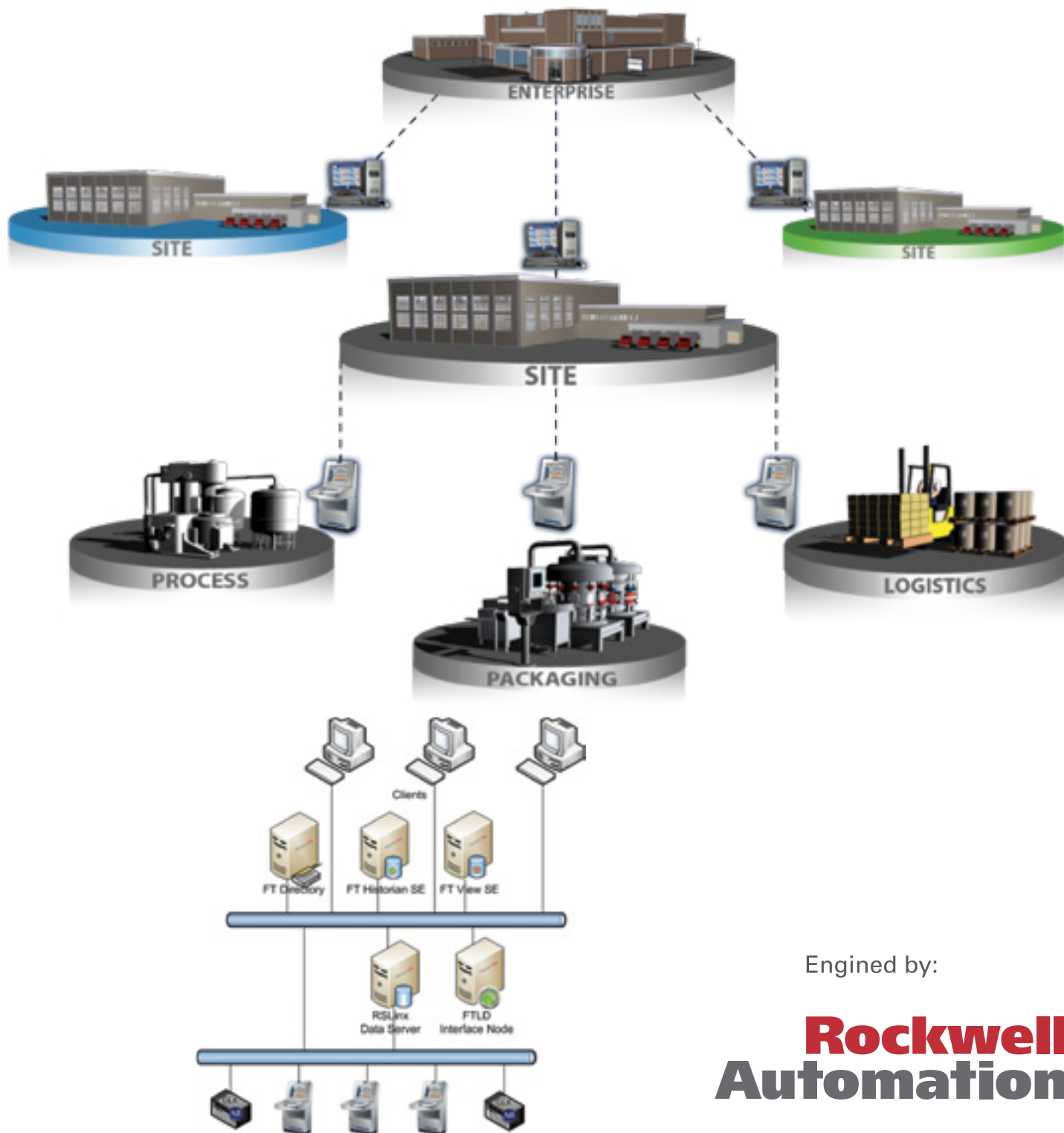
Find Best Alternative
 Optimize Return on Investment

OPTIMIZE FULL PERFORMANCE IMPROVEMENT



Reveals Micro Stops
 Solve System Constraints

Scalability to Enterprise Locations to Effectively Deploy Strategies thanks to Rockwell Automation's Technological Platform and Global Service.



Engined by:

**Rockwell
Automation**

STREAM
PRODUCT FLOW
INTELLIGENCE FOR CONTINUOUS IMPROVEMENT®

SUPERVISOR 1.0

REMOTE MONITORING SYSTEM

DIRECT BENEFITS:

- Obtain Reliable Information
- Control your Process Variability
- Data mining for Six Sigma Projects
- OEE Increment and Throughput
- Great Communication Tool
- Order fulfillment on Schedule
- Operational Costs Reduction
- Eliminate Printing Reports
- Valuable time savings for Decision Making
- No time spent in writing or capturing data
- Helps Achieve Enterprise Productivity Goals



ANALYZE · EVALUATE · OPTIMIZE
STREAM
PRODUCT FLOW

STREAM PRODUCT FLOW, S.A. C.V.
Prolongación Av. Tecnológico Nte. 801 1er. Piso
Fraccionamiento San Pablo
Querétaro, Qro, México 76130
Tel. 52 (442) 312 0674 (Mex) 01800 1111 292

streamproductflow.com

Engined by:

Rockwell
Automation

STREAM SUPERVISOR®

SPF-CSUP-01E