



Manufacturing Intelligence Fact Sheet

Manufacturers face unprecedented pressures to reduce operating costs and improve business performance without compromising safety, quality and compliance. To survive and prosper in the age of global competition, increasing regulation and shifting consumer demands, manufacturers need to harvest vital production and business data from across the enterprise and convert it into actionable information.

Manufacturing intelligence is a strategy to collect critical, real-time data and turn it into insightful information that's visible and useful to people at every level of the organization. Manufacturing intelligence tools reduce costs and increase productivity by allowing employees to make informed decisions faster than ever before.

Rockwell Automation delivers a suite of data collection, reporting and analysis tools, interfaces and dashboards that manufacturers can use to transform production information into process improvements.

Creating Information Connections

As technology has steadily advanced, many manufacturers have accumulated disparate operating and business data systems. While these systems are crucial to the operational areas they serve, they're essentially data silos that isolate information from the employees that may need that data. This collaboration gap costs money because it prevents people throughout the plant from accessing the information they need to address issues such as quality lapses, inventory losses and equipment availability in a timely automated manner.

Bridging this knowledge-sharing gap with a common data warehouse or a single-vendor solution can be an expensive proposition that seldom reaps adequate return on investment. Similarly, "rip-and-replace" is not a cost-effective choice for most manufacturers.

Manufacturing intelligence solutions present critical production information in the proper business context, correlate data sources, and aggregate that information across multiple manufacturing lines and plants. It delivers relevant reports, dashboards and KPIs to users, supervisors and management through a simple web browser, empowering them with information they need to help solve manufacturing problems before they impact the bottom line. For example:

- **Plant managers and operational vice presidents** can view plant-wide data and metrics for individual areas, such as yield.
- **Quality managers** can easily check selected work-cells and further drill down into events and details, enabling them to see how their quality levels, such as first pass yield and first pass quality, are tracking.

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- **Engineering and maintenance managers** can view efficiency data from areas of the operation to conduct root cause analysis and equipment availability.
- **Equipment operators** are able to study cycle times and scrap rate right at the machine.

Manufacturing Intelligence in Action

According to Cambashi Inc., a leading industry analyst firm, manufacturing intelligence fits a strategic role in enhancing production applications that track, measure and guide the activities in the plant, while being tightly integrated with transaction-oriented enterprise applications that are mostly focused on planning. "Companies that embark on a manufacturing intelligence program should examine the interconnected web of their information systems, and their network of suppliers, partners, distributors and customers. Through these interconnections, companies can see the correlations between activities and the resulting performance," says Julie Fraser, Cambashi.

Companies across America are already leveraging manufacturing intelligence and reaping the benefits. According to a three-year study commissioned by MESA International, a cross-section of companies that have adopted Manufacturing Intelligence solutions – referred to as "Business Movers" in the Metrics that Matter study – managed to boost their bottom lines between 2007 and 2009. The study looked at 26 operational metrics, including systems uptime, on-time delivery and energy consumption. (See the survey at www.mesa.org.)

Manufacturing Intelligence at RSTechED

At RSTechED™, Rockwell Automation is featuring its products, services and solutions that address manufacturing intelligence at five hands-on labs and six sessions – as well as customer presentations offered Monday and Tuesday.

For more information about manufacturing intelligence at RSTechED, please visit:

- **Workshops**
 - MI01 - FactoryTalk® VantagePoint: New Vertical Industry Content, Reporting, Dashboards
 - MI04 - FactoryTalk VantagePoint: Making Your SAP and Manufacturing Data More Actionable
 - MI05 - Sustainable Production: Case Studies on Finding Success with FactoryTalk Metrics/Historian/VantagePoint
 - MI06 - Case Study: U.S. Pipe Cuts Downtime, Improves Production with FactoryTalk Metrics and FactoryTalk Historian
 - MI07 - Performance Monitoring for Information Enabled Machines
 - MI11 - Manufacturing Intelligence: Understand This Powerful Strategy, Including Strategies for Accessing and Using Data
- **Customer Sessions**
 - CT01 - Nestlé Product Technology Center Marysville – Reaping the Data Harvest with FactoryTalk VantagePoint EMI
 - CT03 - Syngenta Crop Protection – Improving Performance through Automated Information Systems
 - CT08 - Alexandria Extrusion Company – Using Real-Time and Historical Data to Improve the Extrusion Process
 - CT09 - Procter & Gamble – Data Collection and Analysis for High-Speed Applications

For additional information about the Rockwell Automation manufacturing intelligence capabilities, visit www.discover.rockwellautomation.com/mi.

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About Rockwell Automation

Rockwell Automation, Inc. (NYSE: ROK), the world's largest company dedicated to industrial automation and information, makes its customers more productive and the world more sustainable. Headquartered in Milwaukee, Wis., Rockwell Automation employs about 19,000 people serving customers in more than 80 countries.

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