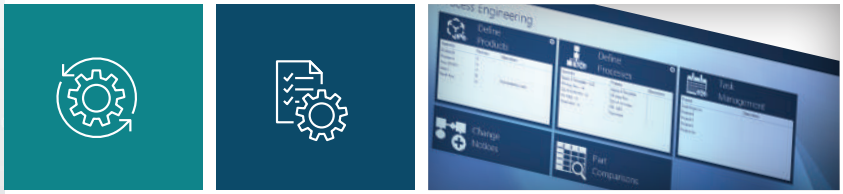
FactoryLogix®

Software for Manufacturing Operations



Enabling the Connected Factory

AEGIS SOFTWARE

Speed, Control and Visibility for Manufacturing Operations

AEGIS SOFTWARE

The leading provider of innovative software solutions to **improve speed, control, and visibility** throughout manufacturing operations.

A Global Corporation with Proven Success

Founded in 1997 by two manufacturing engineers, Aegis has over 20 years of experience providing world-class software to customers around the globe. Our installed base spans more than 2000 factory sites across the electronics, medical, automotive, military, and aerospace industries. Aegis is your turn-key solution provider with direct staff and operations in China, Germany, the UK, and the US.

Proven Industrial IoT-Based MES Platform for Manufacturing Excellence

FactoryLogix is architected to operate in an on-premise, cloud, or hybrid cloud deployment model and serves as your central manufacturing backbone. This highly configurable, intuitive solution provides a robust platform for IIoT device, system, machine, human connectivity, and advanced analytics, facilitating faster and smarter decision-making that propels your business forward.

The Industry's Most Trusted Software Partner

For over two decades, Aegis has maintained more resale and technology integration partnerships with the leading machine vendors than any other software provider. Today, Aegis is partner to more than 36 machine vendors. These partnerships provide customers the best offline programming and real-time data acquisition systems possible.

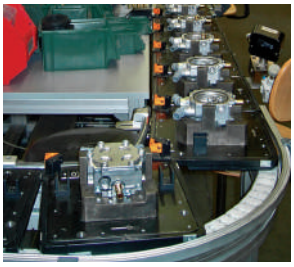
Award Winning Results

Aegis is the proud recipient of over 20 industry awards, including the Frost & Sullivan SMT Software Company of the Year and winner of 18 straight independent customer satisfaction awards from Circuits Assembly Magazine.

Diverse Industries.
Complex Challenges. One Solution.

Electronics Assembly

Electronics manufacturing has some of the most complex and data intensive production processes of any industry. Aegis originated from the electronics industry and as result, the system core holds complete awareness of mechanical and electronic CAD. All manufacturing information is mapped to this intelligent design data, providing analytics, quality, and traceability to a depth not possible with generic MES software.



General, Discrete Manufacturing

Whether you install electronics into your final assemblies or build products without any electronics at all, Aegis supports your process. Our software enables you to improve, track, and control the manufacture of everything from complex electromechanical devices to consumer goods moving at high speed through PLC-driven conveyor systems.

Large Scale, Cell-Based Production

Manage manufacturing where processes move around the product, rather than the product moving through processes. Aegis software fully supports cell-based manufacturing where processes can execute over long periods of time, with extensive validation and re-validation. Our system even supports subassembly manufacturing in flow lines that then integrate into upper-level, large scale products assembled in a cell.

FactoryLogix®

The Adaptive Framework of Manufacturing Operations

FactoryLogix is an integrated suite of software modules and devices that adapt to, and improve, every aspect of your manufacturing operations.

Speed

Improve throughput and bring consistency to the complicated tasks of preparing products for production, while expediting process, quality, and materials management during execution.

Control

Take complete control of materials, production, quality, test management, and the numerous factory office activities necessary to properly prepare products for launch.

Visibility

Drive continuous quality improvement by leveraging IIoT data from people, machines, devices and processes via reports, dashboards, and mobile devices.

AEGIS SOFTWARE

Speed, Control and Visibility for Manufacturing Operations

FactoryLogix®

IIoT-Based, Zero-Code MES Platform Enabling Operational Excellence Around the Globe

Simplified Regulatory Compliance

Windows Server Active Directory

Aegis benefits from the advanced security and user rights management of the Microsoft Windows Active Directory.

FDA 21 CFR Part 11

Electronic signatures, security, and multilevel validation simplify compliance with FDA CFR Part 11 regulations.

ITAR

Restrict access to information in compliance with International Traffic in Arms Regulations.

Gamp5

The Aegis research and development lifecycle and processes follow GAMP5 practices, simplifying customer implementation, validation and qualification.

FactoryLogix®

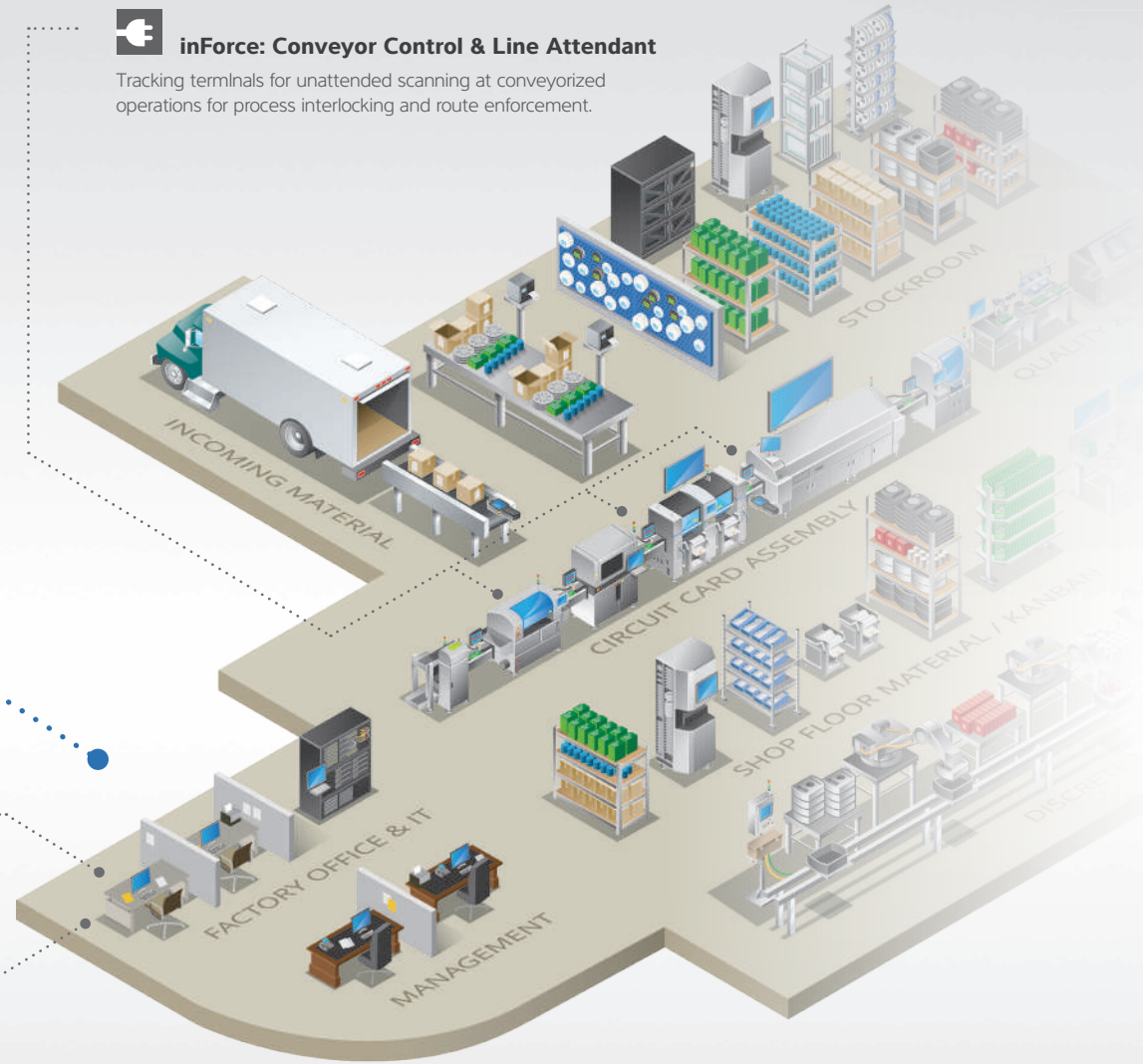
Digital Manufacturing Engineering

Fast, simple, controlled production preparation even for large groups of engineers working in tandem.

- Manufacturing Process Definition
- ECAD, Mechanical CAD & BOM Importing
- Work Instruction Authoring & Document Repository
- Electronic Revision Approvals
- Offline Machine Programs

inForce: Conveyor Control & Line Attendant

Tracking terminals for unattended scanning at conveyorized operations for process interlocking and route enforcement.



Adaptive Planning

Simultaneously schedule and reserve material for near-term production and immediately resolve material shortages throughout all areas in the factory.

Task Flow Management

Manage more than production: Create teams, delegate tasks, and analyze production preparation throughput across your enterprise.

FactoryLogix®

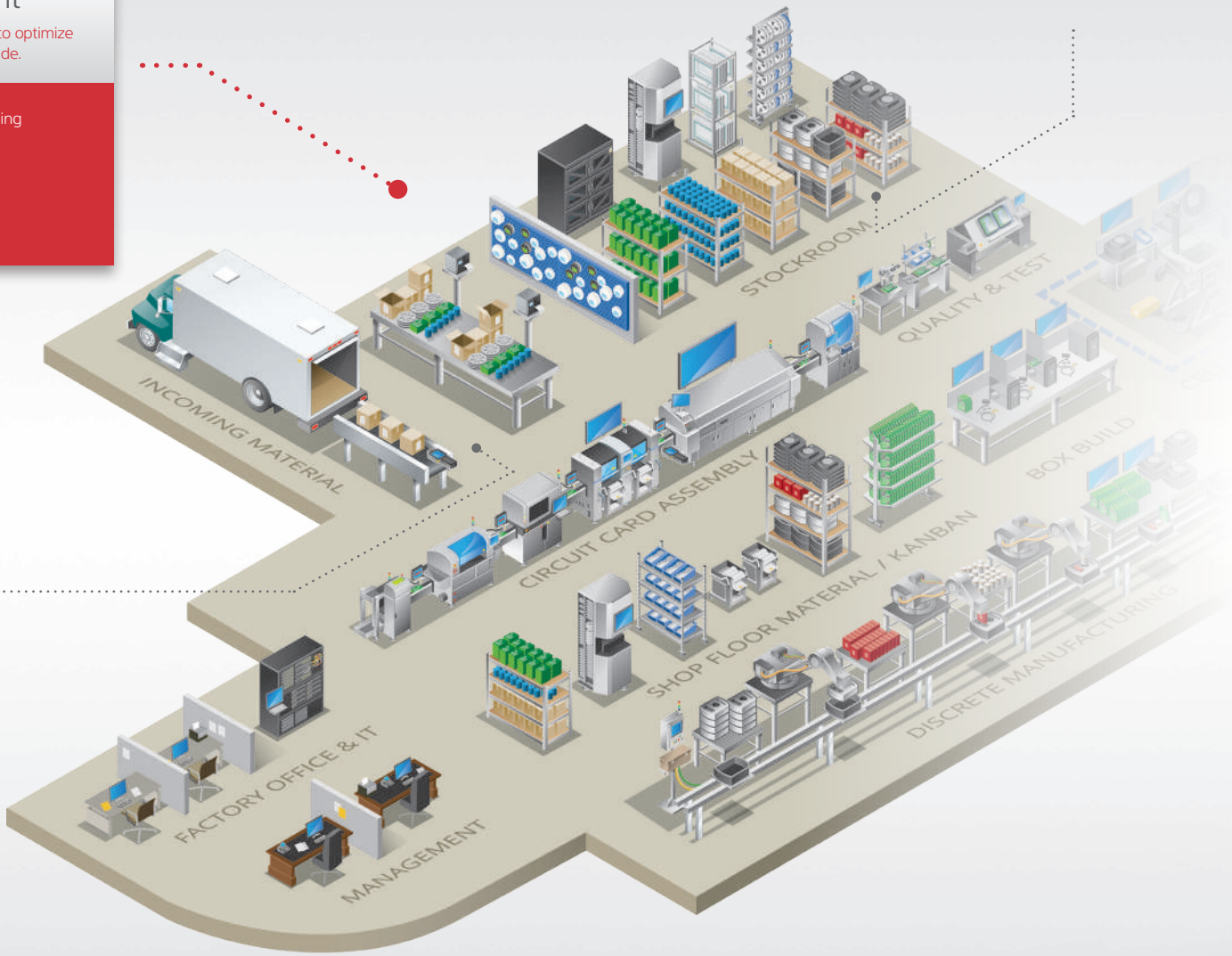
Lean Materials Management

Leverage lean, pull-based materials management to optimize and assure material flow and monitoring factory-wide.

- Material Receiving & Labeling
- Incoming Inspection
- Warehouse Management
- MSD Management
- Material Kitting & Dispatch

Mobile Logistics

Perform stock and kitting transactions untethered in main and kanban stock areas using HTML 5.0 compatible devices.



Material Receiving & Inspection

Guide operators through dynamic receiving processes and automate AQL sampling for material inspections.

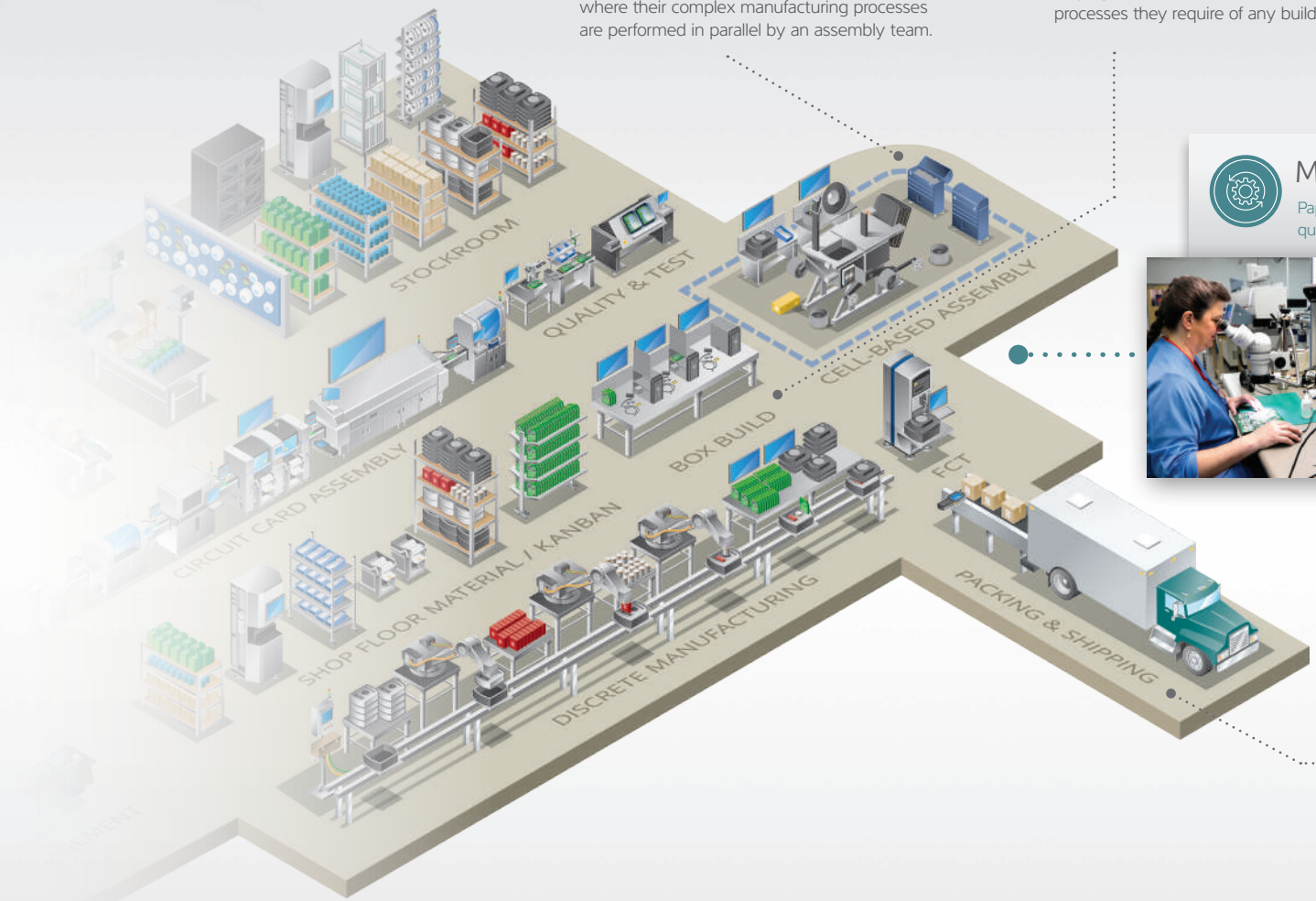
FactoryLogix®

Cell-Based Assembly

Track and control builds of large scale products where their complex manufacturing processes are performed in parallel by an assembly team.

Configure-to-Order (CTO)

Efficiently process highly configurable assemblies varying in product content and the operational processes they require of any build quantity.



Manufacturing Process Execution

Paperless process execution, WIP tracking, routing control, quality and test data collection / diagnostics.

- Interactive Work Instructions & Operator Guidance
- Product Tracking & Control
- Work Station Setup Validation
- Quality /Test Data Collection, Repair & Diagnostics
- SMT Assembly Machine Setup Validation

RMA/MRO Returns & Overhaul

Perform repair and refurbishment operations for in-process and returned material varying in content and condition.

FactoryLogix®

xTend: System-to-System Integration

XML file exchange between Aegis and ERP, PLM, time and attendance systems, and more.

xStream: Scheduled Data Export

Automatically transmit data to third-party solutions without the complexity and cost of customization.

Supply Chain Visibility and Traceability

Readily track product history and content, including subassembly genealogy, material lot content, inspection and test results, and all activities.

Manufacturing Intelligence

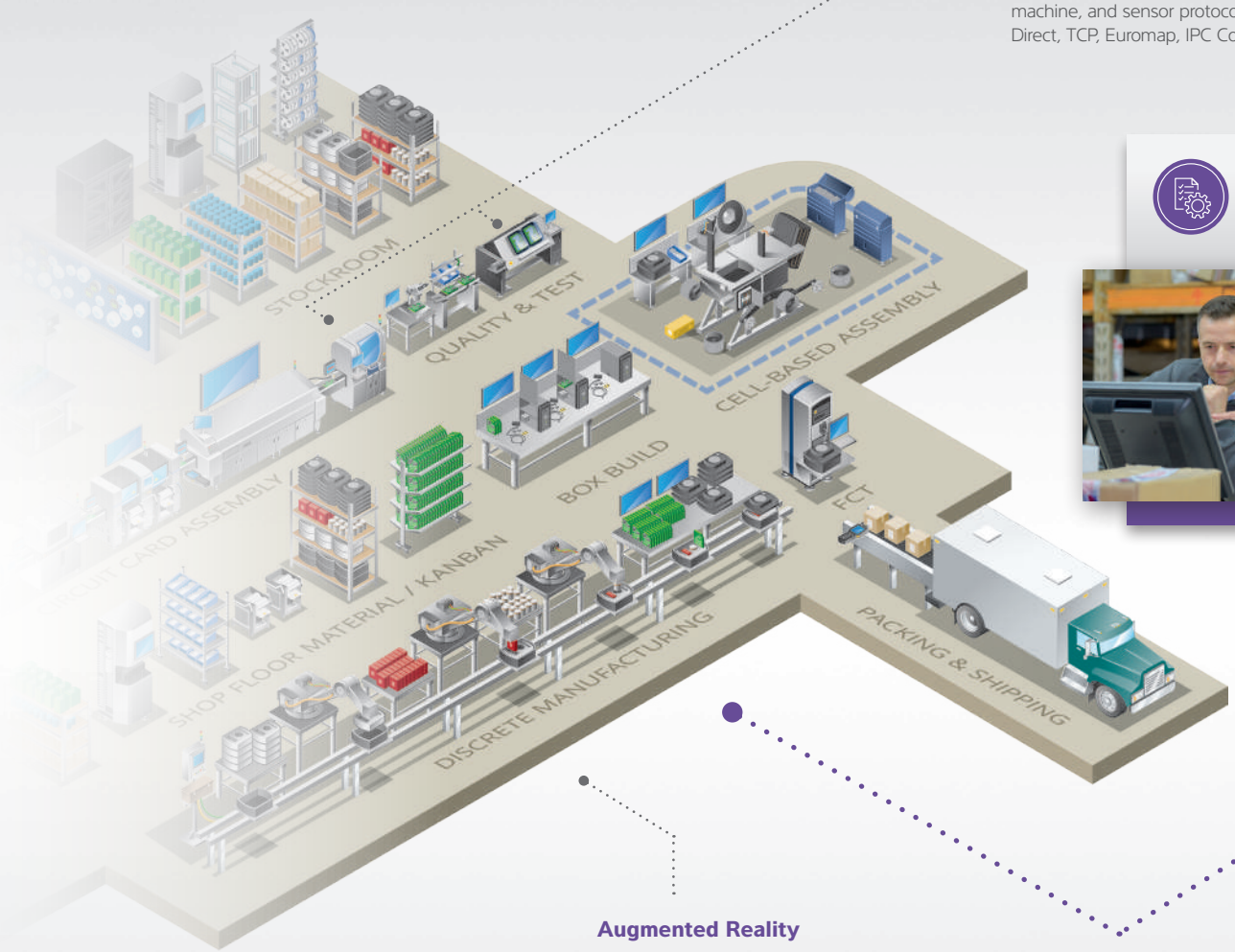
User configured reports, real-time dashboards, operations dashboards, and mobile analytics.

- Real-Time Dashboards
- Historical Data Mining
- Product & Process Traceability
- Alarms & Notifications
- SPC Reporting

FactoryLogix®

xLink: Machine Data Acquisition

Transforms machine data from their native sources and protocols into a standards-based XML data stream. Robust support for asset, machine, and sensor protocols such as PLC, DB, OPC, OPC UA, Direct, TCP, Euromap, IPC Connected Factory Exchange (CFX).



Quality Management

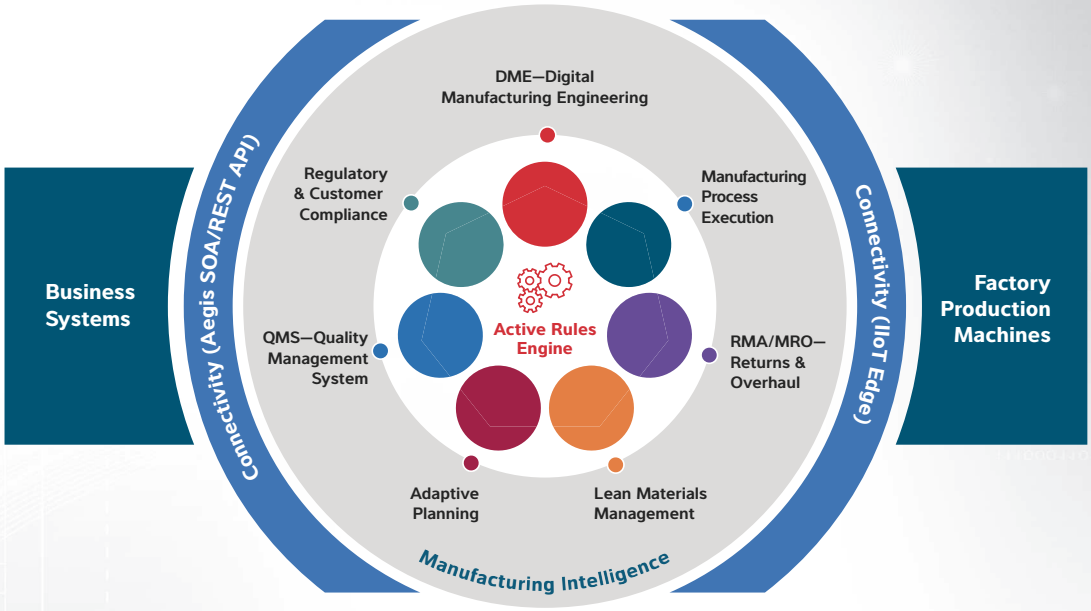
Automate the three pillars of zero-defect quality: firewall incoming material problems; capture and fix in-process issues; and correct root causes.

- Real-Time SPC Monitoring and Alarming
- Supplier Quality Management
- Dynamic Non-Conformance Lifecycle Management & Reporting
- Corrective and Preventive Action Management (CAPA)
- Failure Reporting, Analysis, and Corrective Action System (FRACAS)

Augmented Reality

FactoryOptix® enables a hands-free, integrated environment for human assembly, test, inspection, and logistics operations.

Adaptive, Modular MES,
Built for an Industry 4.0 World



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