The MPI Group

The Digital Road to Industry 4.0 and Beyond

Each stage of digital maturity toward Industry 4.0 and beyond presents challenges, requires new ways of working, and offers competitive and financial benefits that drive manufacturers toward the next step.

Where is your organization?

Stage 1
Operations data capabilities: Getting started.

- **Challenges:** Executive indecision and outdated network infrastructure
- **Best practices:** Identify where immediate application of smart devices in processes or equipment can remedy recurring problems or drive quick productivity gains.
- **Benefits:** Process-level performance improvements and cost savings.

Stage 2
Capture and share operations information: Building out the data-capture and -sharing infrastructure.

- **Challenges:** So many processes and pieces of equipment could be smarter — which ones should come first?
- **Best practices:** Develop a long-term IoT strategy in which real-time intelligence automates plantfloor decisions.
- **Benefits:** Plantwide operations improvements and cost savings.

Stage 3
Find and leverage intelligence: Giving executives the tools to locate and leverage the right information among the billions of available bytes

- **Challenges:** Enterprise executives need customized information specific to their roles and business applications.
- **Best practices:** Establish IoT infrastructure and network capabilities that support enterprise-wide digitization.
- **Benefits:** Improved strategy development and deployment that enables proactive decision-making throughout the organization.

Stage 4
Manage digital intelligence and assets: Making data accurate, secure, and available across the enterprise and supply chain.

- **Challenges:** Data capture points and sharing capabilities pose security risks.
- **Best practices:** Establish policies for securely sharing IoT data beyond the enterprise.
- **Benefits:** Improved supply-chain performance and cost savings.

Stage 5
Smart/intelligent collaboration: Exploring ways to integrate human intelligence and actions with automation, robotics, cobots, and artificial intelligence.

- **Challenges:** There are many new technologies — Digital Twins, Digital Threads, new realities (virtual, augmented, mixed), cobots, artificial intelligence, etc. — from which to choose.
- **Best practices:** Select new tools with a track record of returns in operations like yours.
- **Benefits:** Game-changing competitive advantage.

Presented by SAP

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