# **SIEMENS**

**DIGITAL INDUSTRIES SOFTWARE** 

# **Enabling operational** excellence of medical device production facilities

Digitalize manufacturing processes and plant management to enhance readiness, efficiency and quality



## Trends

New market challenges are increasing the need for medical devices companies to innovate products and processes





Elderly population

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Supply chain robustness



**Next-level** intelligence

**Relentless** innovation Regulatory complexity



Value-based care

## **Digitalization:** The effective medicine for operational excellence

**Current market challenges** are forcing manufacturers to:



#### With a digital manufacturing infrastructure, manufacturers can:

Respond faster to market needs by anticipating production and operational changes

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Increase the performance and agility of production operations

Improve quality with flawless production data traceability

## **Siemens' Operational Excellence for Medical Devices**

#### **Operational Efficiency**

Bridge the data and collaboration gap from design to manufacturing execution, implementing automatic planning and scheduling and optimizing efficiency in production plans



& Quality

**Operational Readiness** Simulate parts, machines and plants using a digital twin, anticipate issues and be ready to respond rapidly to change

#### **Operational Quality**

Enforce processes and track production data in device history records with paperless manufacturing, ensuring quality and compliance

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- Ensure alignment and compliance to the design requirements with the engineering **BOM** management
- Anticipate design changes and retooling requirements through process validation
- Track and trace 5M data for improved visibility

- Adopt electronic work instructions to minimize rework and improve throughput
- Capture, share and reuse information across sites with centralized configuration and change control

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• Optimize logistics with end-to-end supply chain management

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### Track manufacturing data with centralized production information

- Enforce good manufacturing practices and regulatory compliance
- Eliminate non-value-added activities
- Create a self-auditing electronic Device History Record (eDHR)
- Error-proof and paperless manufacturing processes enabled by the manufacturing execution system (MES)

## What's next?

To find out more on how you can achieve operational excellence, take a look at our related white paper

Learn more



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