

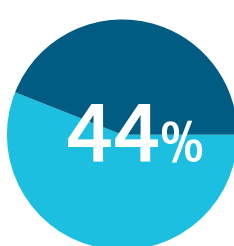
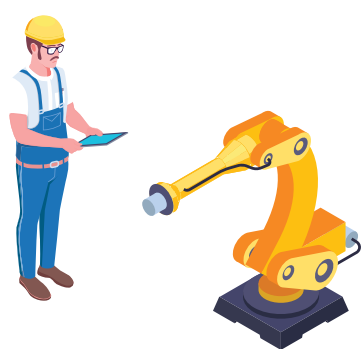
DIGITAL INDUSTRIES SOFTWARE

Improving the factory environment

Increasing efficiency with smart manufacturing

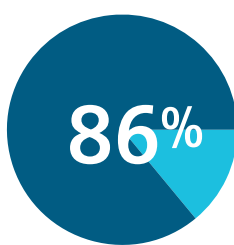
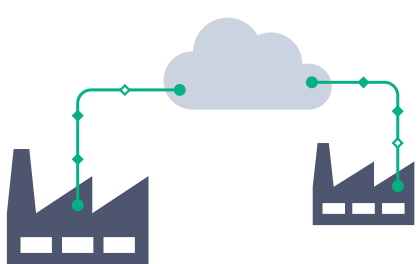
Global trends

Disruptive influences: More businesses are using Industry 4.0 technology to boost their operating efficiency.



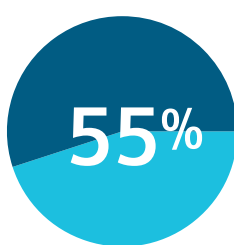
Of companies are prepared to go digital.

Smart factories: Smart technology, like the industrial internet of things (IIoT), cloud environments, artificial intelligence (AI) and machine learning (ML), are driving the implementation of the intelligent factory.



Of companies believe that cloud technology is critical to their digital transformation.

Business model changes: Technological solutions are improving operational efficiency by displacing product-centric approaches to workplace challenges.



Of companies will increase their hours spent using technological skills by 2030.

Challenges

- ✓ Complex global supply chains
- ✓ Inadequate visibility of regulatory and safety standards
- ✓ Lack of operational agility, visibility and control
- ✓ Insufficient skills to integrate new technology into production lines
- ✓ Time-consuming physical commissioning of production machines and lines
- ✓ Quality systems lack integration
- ✓ Disconnected operational systems

Solutions

Plan	Execute	Optimize
<ul style="list-style-type: none"> • Improve automation lifecycles with digital experts • Simulate and optimize flexible manufacturing processes • Use a digital twin to plan and gain greater manufacturing efficiency • Ramp up faster with virtual commissioning tools 	<ul style="list-style-type: none"> • Integrate regulations and requirements for faster alignment • Improve quality with standardized automation and safety concepts • Synchronize processes, eliminating redundant tasks • Connect and collaborate via the cloud 	<ul style="list-style-type: none"> • Capture analytics using edge-sharing devices and the IIoT • Maximize manufacturing with IIoT operational data • Improve manufacturing performance with AI and ML tools • Enhance product quality and design with a closed-loop system

Benefits of using a Siemens solution

<p>Plan Reduce commissioning time by 30 percent.</p> <p>Learn how</p>	<p>Execute Improve manufacturing efficiency by 15 percent.</p> <p>Learn how</p>	<p>Optimize Decrease root cause analysis time by more than 50 percent.</p> <p>Learn how</p>	<p>What's next? Smart manufacturing is part of the Siemens Xcelerator business portfolio of software, hardware and services.</p> <p>Learn more</p>
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