

Technologies that Drive Smart

Manufacturing in 2022

Manufacturing is clearly going down the path of information and automation

Global size of smart manufacturing market



2021: \$249.56 billion



2022: predicted to rise to \$277.81 billion

Robotic Process Automation

Automating software tasks to simplify the manual work of employees:

Back-office tasks



Accounts Receivable/Accounts Payable tracking



Inventory management

Vendor management



Conversational AI can automate customer service, troubleshooting, and reporting services for employees

Artificial Intelligence and Machine Learning

Complex AI and machine learning algorithms can keep machinery running longer, and find ways to make factories highly productive while generating the least cost



Predictive maintenance with the use of special IoT sensors



Generative Design

Quality Assurance



Non destructive testing



Improved Supply Chain Management:



Cognitive Supply Chains

Digital Twins

The concept of a digital twin digitises the testing process of how to set up a production line:

Digitising factory floor into a non-static

simulation based on real-time data from sensors

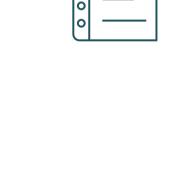
Rearranging & modifying easily the



pieces of the production line



Finding the most optimal layout



Manufacturers are moving to storing data on cloud:

Cloud Technologies

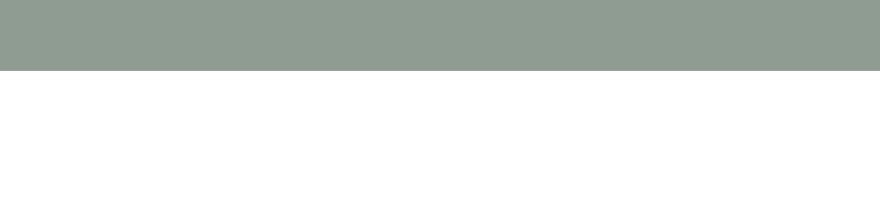
Secure data access from anywhere



Cost reduction: less fees for IT support and storage hardware at production sites



High scalability: more easy to add storage if needed



Tip: Attention to cloud infrastructure

security for data protection!

The use of sensors in factories has helped to power AI applications

Digital twins

Internet of Things (IoT)

Predictive maintenance 💢

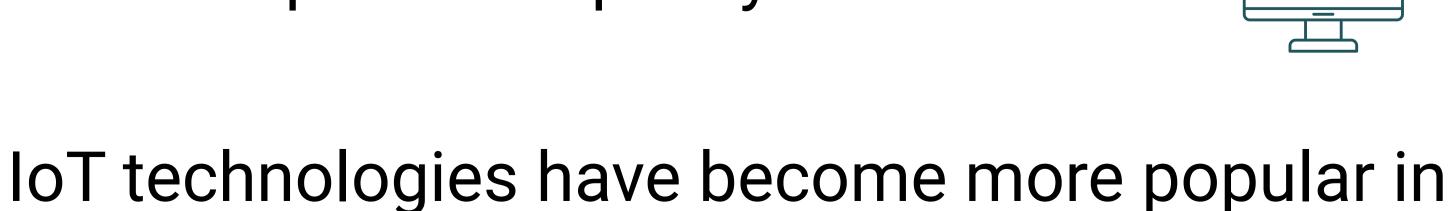


Automated power management



01001010 00101010

Computer vision-powered quality assurance



industrial spaces because of advances in wireless connectivity technologies

Source: Smart Manufacturing Trends 2022

Contact Us







