

Industry 4.0: Enable Optimized, Data-Driven Outcomes and Innovation Across the Value Chain

NTT DATA

SNAPSHOT | MANUFACTURING



Industry 4.0 empowers manufacturers to better control every aspect of operations, leveraging real-time data to boost productivity, improve processes and drive growth. With NTT DATA Industry 4.0 solutions you can optimize data-driven business outcomes across the manufacturing value chain. Our digitized, intelligent platforms help increase revenue, operational efficiency, supply chain resiliency, speed of innovation and more.

Our Industry 4.0 portfolio is:

- **Modern:** strategic business and industry consulting for clients and product development
- **Connected:** digital innovation through a fully connected manufacturing ecosystem
- **Smart:** technology for workforce, factory and warehouse/distribution
- **Secure:** deeply integrated security throughout manufacturing IT and OT solutions

We focus on business and technology strategies that help manufacturers create connected enterprises, drive digital innovation and improve competitiveness. Our investments in smart product platforms, based on advanced manufacturing processes across a wide range of technologies and business uses, can drive competitive advantage and new revenue sources. Integrating and analyzing supply chain data from multiple sources in real time ensures visibility and resilience – driving proactive, automated and prescriptive actions, mitigating supply chain risk, improving the quality of decision-making, accelerating time to market, reducing errors and decreasing response time.

We also help focus on customer and workforce transformations. Digital business models create new revenue sources and drive higher competitive barriers while asset management increases lifecycle revenues and profitability as it lowers the cost of sales. Reconfiguring workforce, organizational system and best-fit workplace models with more flexible and composable resources, including artificial intelligence (AI), robotics and gig workers, improves agility, efficiency and effectiveness while helping reshape the future of work.

Your manufacturing operation can apply NTT DATA's foundational Industry 4.0 technologies across the value chain:

- **Operational technology:** shop-floor robotics, PLC, SCADA, HMI and MES
- **Engineering technology:** PLM, CAD, CAM, CAE and 3D printing
- **Connectivity:** LAN, WAN, Wi-Fi, 5G, private 5G and LTE, edge and internet of things (IoT)
- **Digital technology:** cloud, digital twin, data intelligence, analytics, AI, machine learning, blockchain, and augmented reality and virtual reality

Benefits:

- Increased efficiency, productivity and revenue
- Enhanced supply chain management and resiliency
- Improved demand forecasting and response time with less machine downtime
- Digital-enabled modernization and new business models
- Better customer experience and co-innovation
- Smart factory and manufacturing operations ensure quality, compliance and sustainability
- Improved logistics with traffic management platform

Co-innovation and strategic partnerships from a proven global provider

At NTT DATA, we're ready to meet your needs, no matter how quickly the market changes. This enhanced customer experience includes co-innovation to adapt and develop new business models using Industry 4.0 technologies, including:

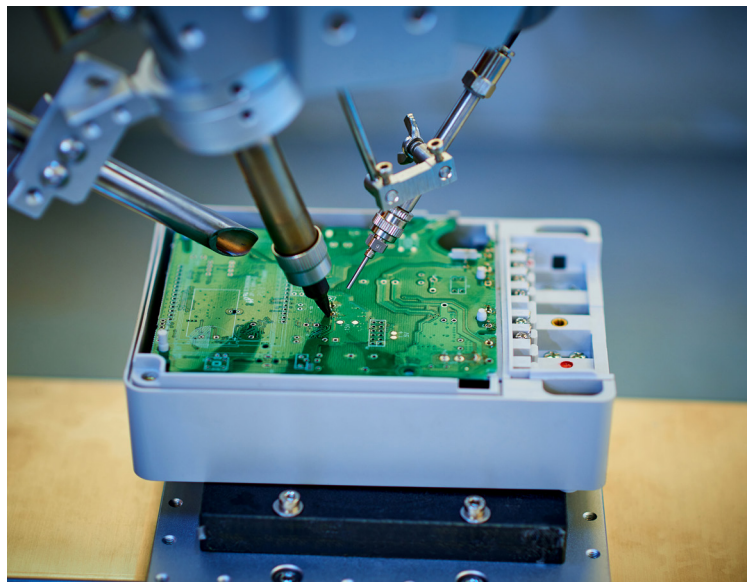
- AI predictive maintenance and power grid
- Factory IoT platform
- Operations visibility
- AGV traffic management
- Smart city technology
- Connected car program

Our partnerships and stakeholders help us define and measure the success of your Industry 4.0 technology investments and develop unique go-to-market accelerators. These partnerships include:

- Microsoft Azure for smart manufacturing initiatives
- SNOW for manufacturing expertise
- SAP for global connected supply chains

We're a one-stop shop for all your Industry 4.0 manufacturing needs. NTT DATA offers the following global capabilities and industry-focused investments:

- End-to-end solutions for manufacturing, consulting, digital, communication and security
- Global presence and market proximity
- \$3.6 billion research and development investment, with a strong industry focus, as part of NTT
- Smart technology investments in manufacturing
- Comprehensive breadth-of-service offerings for devices, connectivity, edge, cloud, analytics and security



Visit our [Manufacturing page](#) to learn more.

Visit nttdataservices.com to learn more.

NTT DATA Services is a recognized leader in IT and business services headquartered in Texas. A global division of NTT DATA — a part of NTT Group — we use consulting and deep industry expertise to help clients accelerate and sustain value throughout their digital journeys.

NTT DATA
Trusted Global Innovator