



Smart Manufacturing Offering Overview

Building intelligence into production systems, providing real-time visibility and self-optimization

Intelligent manufacturing operations enabled by Industry 4.0, IoT, and digital technologies, connect your systems to provide real-time access to insights needed to drive production resilience, minimize equipment downtime, accelerate and scale existing operations, and improve quality and utilization.

Challenges for Manufacturing Organizations



Increasing production efficiencies through predicting failures, rapid root cause analysis and self-optimizing production

Industry 4.0, IoT, and digital technologies have created unique opportunities for manufacturing organizations to deliver intelligent production environments with real time visibility, streamlined processes, and enhanced production quality. These technologies allow organization to create self-aware and self-optimizing systems and processes that can use automation to remain resilient.



Creating new value by applying the right IT and OT technology solutions at scale, through automation and process efficiencies

Aging and disconnected legacy systems, technologies, processes, and data silos are constant roadblocks to predictable production operations. New technologies are creating a digital literacy gap in your workforce. Organizations need a strategy that integrates IT and OT technology solutions providing the real-time information and intelligence needed at scale while reducing costs and downtime.



Maintaining production resilience, controlling costs and waste, extending the value of systems, and reducing downtime

Manufacturing operations struggle with extracting value from the investments and technologies they have made in existing systems. Pressure continues to mount to increase production quality and rates while controlling costs and reducing downtime. Organizations need an operations environment that has the agility and scale to adapt to changing production needs, provide resilient operations and create opportunities to improve sustainability and green initiatives.

Cognizant Smart Manufacturing

Cognizant Smart Manufacturing builds intelligence into production systems to provide real-time visibility and self-optimization into manufacturing operations. We apply the right IT and OT technology solutions at scale, embedded with automation, data and analytics, to deliver production resilience, process efficiencies, cost and waste control, and failure prediction—while reducing downtime and extending the value of your systems.

Delivering superior outcomes



Up to 20% lower cost of quality: Cost savings can be reinvested in digital initiatives to drive growth



Up to 45% improved labor productivity: Operational efficiencies drive faster execution and accuracy



Up to 35% improvement in planned equipment downtime: Factory resilience improved with production uptime



Up to 20% reduced maintenance costs: Significant gains in the ability to meet production demands



Return on investment <12 months: Fast ROI as efficiencies and innovation drive operational results

Where we've made an impact

Leading multinational conglomerate corporation

Rolled out Factory of the Future program across 270 plants globally

- Reduced material scrappage by 25%
- Improved equipment efficiency
- Increased plant utilization

Leading manufacturer of industrial tools, household hardware and security products

Improved shareholder value through Digital Factory implementation globally

- Saved \$3–5 million per plant
- Reduced material scrappage
- Increased plant utilization

Global multinational pharmaceutical and biotechnology corporation

Business transformation partner for Digital Plant initiative

- Reduced inventory costs by 10%
- Improved throughput by 10%
- Reduced rework or scrap by 20%

Why Cognizant

Cognizant has hands-on experience transforming production operations across most industries. We help you define your strategic smart manufacturing vision by leveraging our best-in-class Cognizant OnePlant™ methodology and framework. It quickly identifies how digital technologies can improve your production operation, while benchmarking you to the market. We then apply the right IT and OT technologies—along with our pre-built accelerators—to increase productivity and predictability. Our solutions scale from one production operation to many globally diverse locations.

Set up a briefing session to learn how Cognizant can partner with you to build a Smart Manufacturing operation.

Visit <http://www.cognizant.com> to find out more