Maximize value and put more data to work

Digital transformation for industry



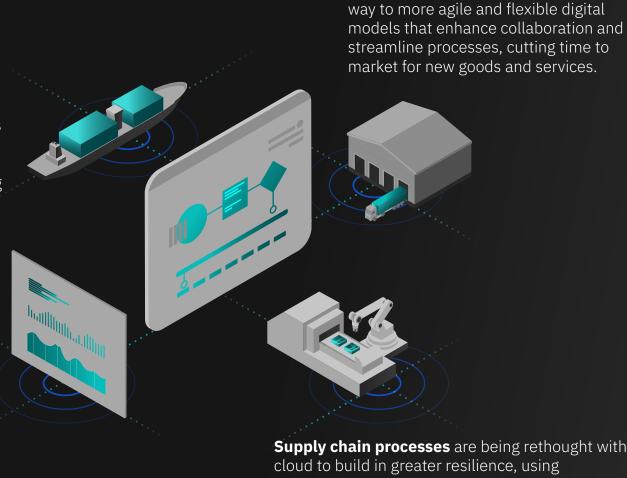
Lower costs, drive efficiency and uptime, and advance Industry 4.0.

Cloud, artificial intelligence (AI) and the Internet of Things (IoT) connect the industrial sector to a vast array of dispersed, disparate devices, sensors and machinery and a staggering volume and variety of data. Leading industrial companies are drawing actionable insights from this rich data, enabling them to more effectively manage operations and head off unplanned downtime. New insights are also fueling faster time to market for new and better products, boosting productivity, and driving new services-based revenue streams.

Insights

Abrupt disruptions in production and supply chains have greatly affected revenue streams, highlighting the urgency for response to shifting marketplace conditions and more accurate, agile and automated forecasting.

Industry 4.0 is creating new opportunities for gaining insights and driving efficiencies through data, with leaders implementing technologies such as smart factories, digital twins and cyberphysical systems that point the way forward.



Supply chain processes are being rethought with cloud to build in greater resilience, using sophisticated data analytics and intelligent automation to predict, detect and respond to supply and demand challenges at the speed of business.

Traditional ways of working are giving

Key objectives

Embrace new edge applications, devices and use cases

from digitized products, IoT devices and facilities

Harness the explosion of data

problems before they result in costly production delays

Identify and resolve developing

Distributed software, devices and equipment introduce new challenges, such as latency,

Challenges

intermittent connectivity and security risks from out-of-date software.

Organizations lack the tools and skills needed to

access data everywhere and apply new machine learning (ML) and AI models.

Manual processes, unexpected failures, and a

lack of real-time historical and asset information slow problem resolution and drive up costs.

How IBM can help Expertise

and modernization strategies and investments.

IBM helps industrial and manufacturing clients get more value from their digital transformation

பூர்ச் Deep and broad experience in ப்ரீர் delivering transformative manufacturing solutions that

> spans Industry 4.0, smart factory, enterprise resource planning, customer relationship management, blockchain and other solutions



supply chains to create smarter products and workflows A proven track record working with leading clients and IBM Business

learning and IBM® Watson® AI into

The ability to infuse analytics, machine



Partners such as Honeywell, Volkswagen, KONE, Adobe, SAP and Salesforce

Winning with open hybrid cloud

with the Red Hat® OpenShift® platform, designated a leader in an evaluation of multicloud container development

Build once, deploy anywhere

platforms. Modernize more applications in the right fit environment—on IBM Systems, IBM public cloud, or the cloud or IT infrastructure of your choice.

security of the IBM public cloud to help you automate updating, scaling and provisioning.

Our fully managed Red Hat

OpenShift on IBM Cloud® service

leverages the enterprise scale and



Edge and IoT

Automate. Optimize. Accelerate.

edge and IoT devices, apps and servers spanning robotics, conveyors, security cameras, scanners and more.

<u>IBM Edge Application Manager</u>

enables autonomous lifecycle

management for thousands of diverse

These capabilities include monitoring,

patching and scaling of applications, even when disconnected. Supply chain and manufacturing IBM Cloud Pak® for Data with

IBM Watson Assistant technology applies machine learning and AI to production line and supply chain



reduction in production defects

by applying AI/ML

at edge for quality monitoring²

faster application

development time²

data to continually optimize processes, such as product quality, line throughput, and partner and client interactions.

Enterprise asset management IBM Maximo® Application Suite software optimizes the lifecycle and performance of assets using visual

inspection and predictive maintenance

to identify anomalies, pinpoint root causes and deliver direction for

corrective action to technicians, and



savings for inventory carrying costs through an 8% reduction in inventory²

reduction in

operations

costs associated

with unplanned

downtime for IT

environments²

and manufacturing



KONE worked with IBM to launch 24x7

implement self-healing processes.

Connected Services through our Watson IoT on IBM Cloud solution, providing predictive maintenance for more than 1.1 million elevators in buildings worldwide. The offering helps reduce equipment downtime and provides more detailed information about equipment performance and usage.

Up to 30%

September 15, 2020.

conditions. Actual results may vary.

15% waste reduction through AI-powered manufacturing³

yield improvements and

guided by an expert.

Learn more about what IBM can do for industrial companies via this customized digital experience,

Take a tour of IBM Garage tools today or get started

with a complimentary virtual Garage framing session.

Learn more

¹ Forrester, *The Forrester Wave™: Multicloud Container Development Platforms, Q3 2020*, Dave Bartoletti and Charlie Dai,