

Manufacturing Insights:

# Using Data to Boost Supply Chain Resiliency



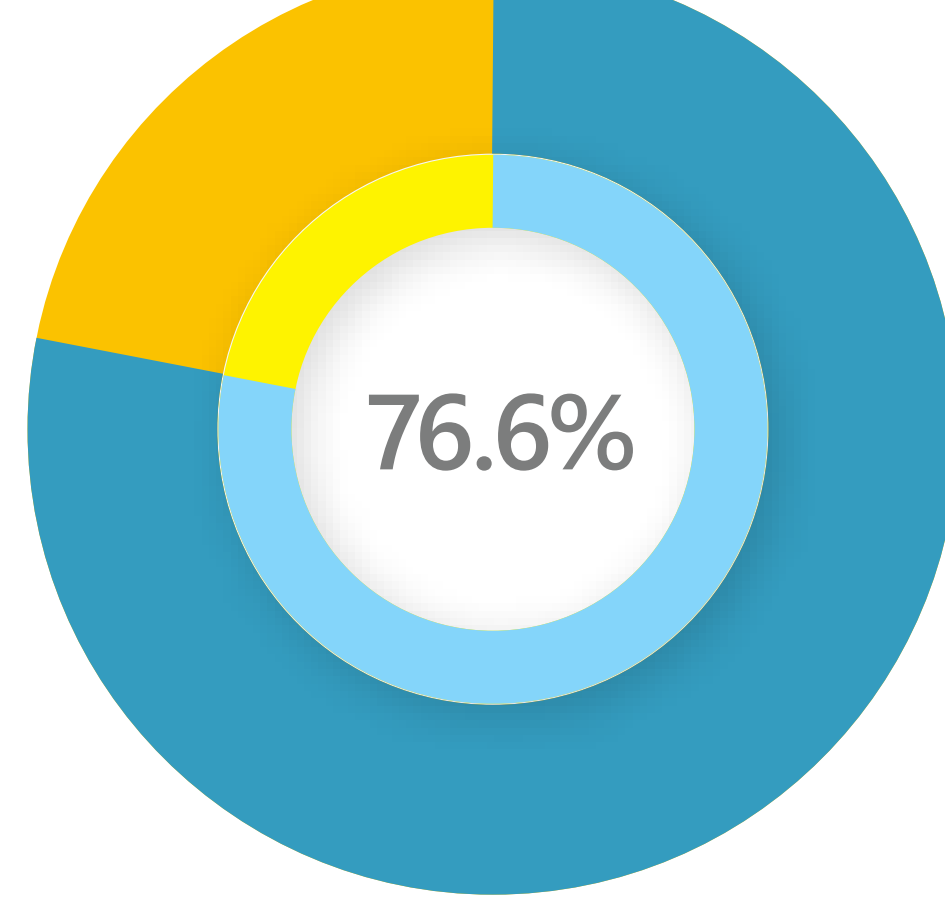
Supply chains have faced a greater-than-normal number of global shocks in the past few years, requiring manufacturers to adapt with agility. This means having the right insights at the right time.

Here are six trends that show how new approaches to generating data-driven insights are enabling greater supply chain resiliency in manufacturing.

## 1

### Circular manufacturing opens a path to greater sustainability

Manufacturers are seeking to reduce the environmental impact of their suppliers, production operations, and distribution centers. Improved data visibility supports circular manufacturing and granular track-and-trace programs.



Manufacturing production accounts for 76.6% of total US emissions.<sup>1</sup>

<sup>1</sup> Environmental impact of the US manufacturing industry and its suppliers. NIST, 2022.

## 2

### Building closer relationships with customers pays dividends

Seeking to profit from direct-to-consumer sales and digital B2B channels, manufacturers are capturing and analyzing customer data at a deeper level. This enables them to differentiate their offerings, increase margins, and build loyalty.



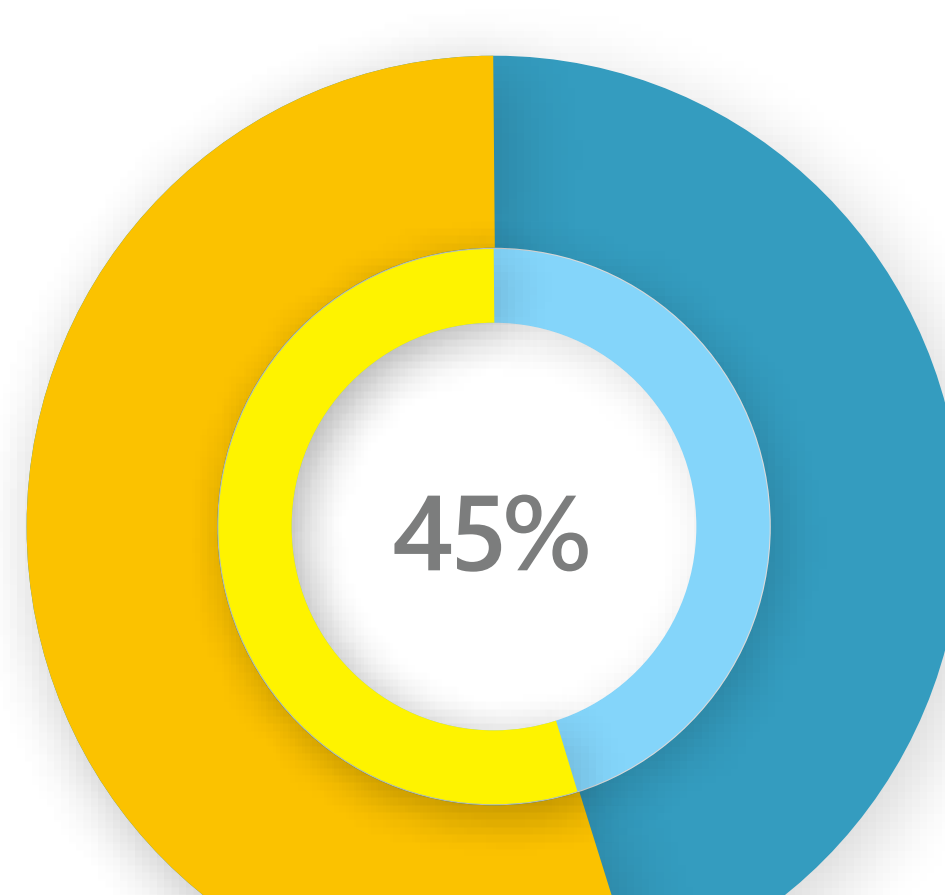
>10%— Potential increase in manufacturing services revenue from applying customer journey insights.<sup>2</sup>

<sup>2</sup> How to boost growth in industrial services: Better customer experience. McKinsey, 2021.

## 3

### Smart factories increase agility and efficiency

Smart factories optimize processes using AI and automation, providing a real-time view of production and stock and helping to improve throughput, quality, and uptime.



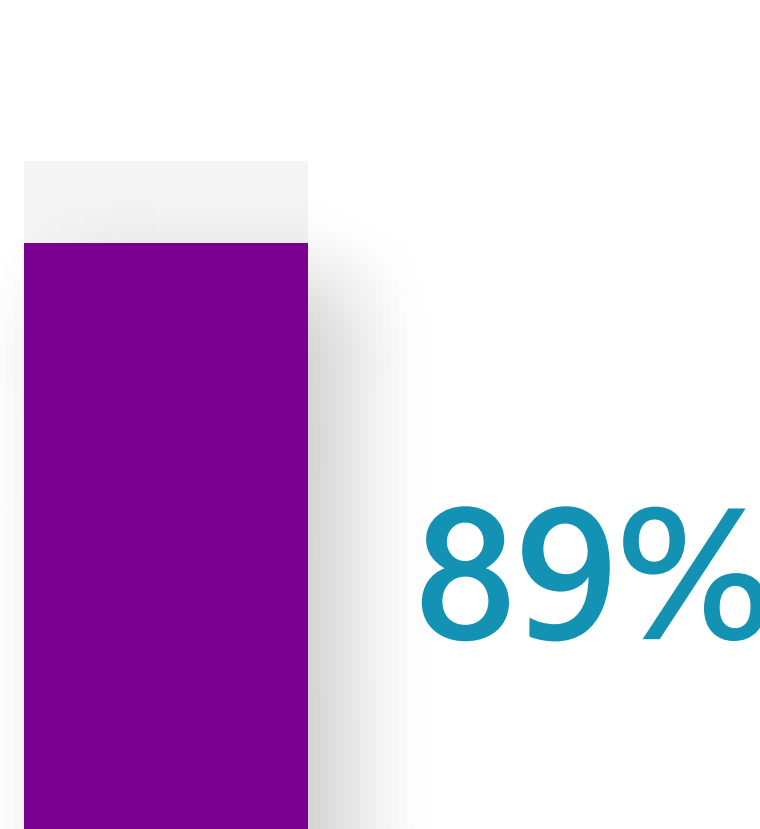
45% of manufacturing executives surveyed expect further increases in operational efficiency from investments in industrial Internet of Things (IIoT) that connect machines and automate processes.<sup>3</sup>

<sup>3</sup> 2022 manufacturing industry outlook. Deloitte, 2021.

## 4

### Workplace automation increases employee satisfaction

Automation empowers employees to contribute their best by minimizing time spent on repetitive tasks, increasing focus on innovation and value-added activities, and enhancing safety.



89% of digital automation users say they are more satisfied with their job.<sup>4</sup>

<sup>4</sup> Employee satisfaction increases as a result of automation in the workplace. ZDNet, 2021.

## 5

### Data empowers employees to make smarter decisions

By choosing supply chain management solutions built on unified data, manufacturers can integrate analytics insights into business processes, gain visibility into performance and operations, and make faster, smarter business decisions.



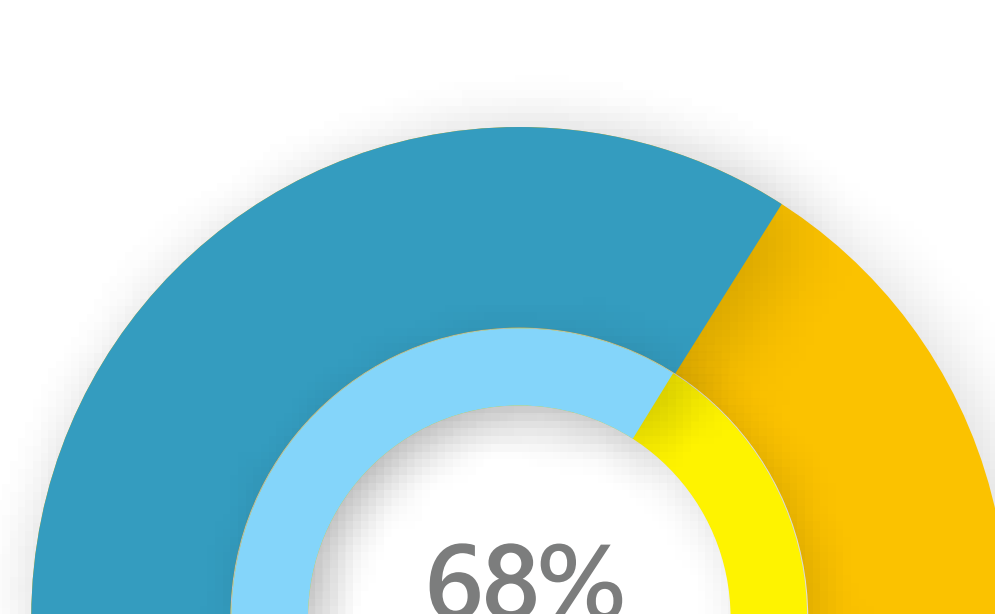
The market for big data in manufacturing is expected to reach \$4.55 billion in 2025.<sup>5</sup>

<sup>5</sup> Building a digital bridge across the supply chain with nerve centers. McKinsey, 2021.

## 6

### New tools simplify risk prediction

Manufacturers are addressing disruption with off-the-shelf AI that predicts risk, from equipment failure to supply chain disruption. With a view of the future, they can improve demand planning, adapt quickly, and keep their options open.



68% of supply chain executives report that they have been constantly responding to high-impact disruptions over the last three years. Most did not have time to recover before the next disruptive event hit them.<sup>6</sup>

<sup>6</sup> The Rise of the Ecosystem — and 4 More Supply Chain Predictions. Gartner, 2022.

## Enabling data-driven resilience with Dynamics 365

Dynamics 365 Supply Chain Management enables you to predict disruptions and respond quickly by digitizing your supply chain, enhancing visibility, improving planning, and maximizing asset productivity.

Learn more about the latest supply chain trends in manufacturing.

[Download the e-book](#)

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