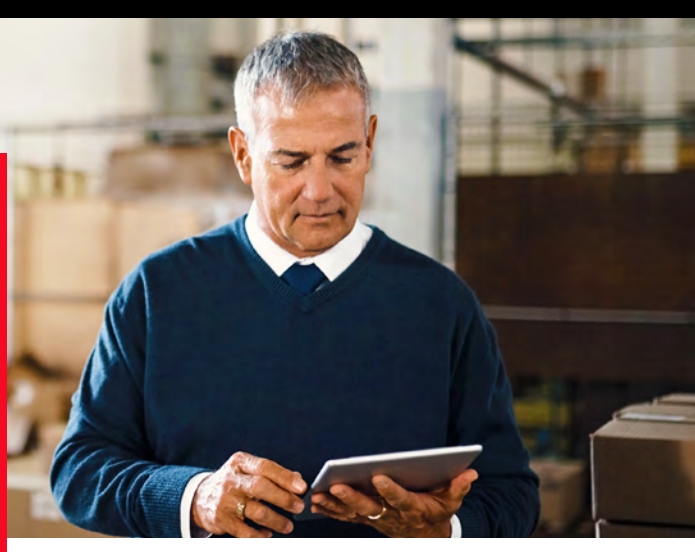


The smart factory of the future

Drive operational efficiency by implementing smart factory solutions



Surveyed manufacturers plan to focus on a range of technologies to increase operational efficiencies over the next 12 months.¹

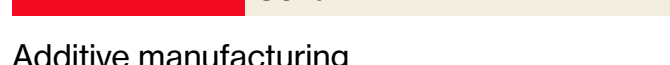
Robotics + automation



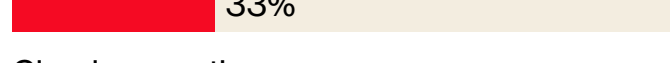
Data analytics



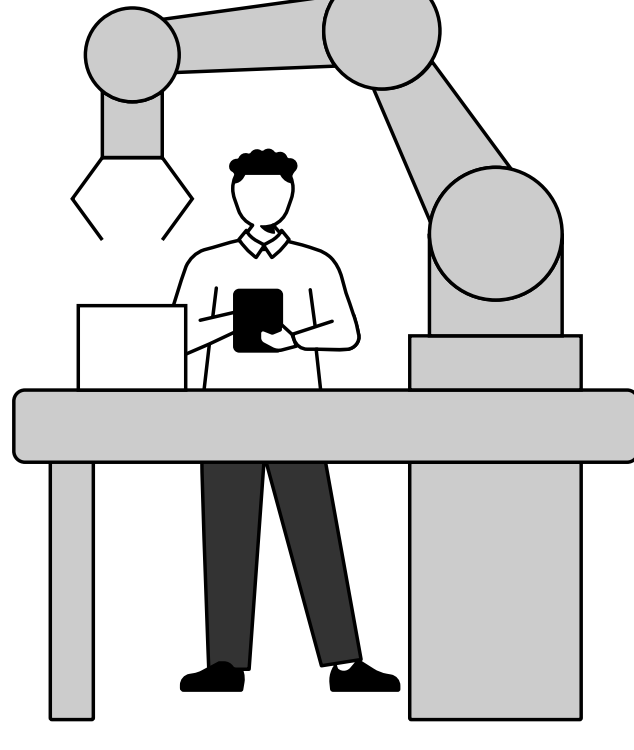
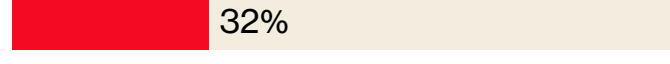
Internet of Things (IoT) platform



Additive manufacturing



Cloud computing



Unlock your potential for true Operational Equipment Effectiveness (OEE)

As the best metric for identifying losses, benchmarking progress and improving the productivity of manufacturing equipment, achieving and maintaining strong OEE is critical.

Unlocking the full potential of your equipment requires a holistic view of your operations. Verizon connects your workforce and factory, providing the real-time data and insights needed to pinpoint and reduce OEE bottlenecks, driving continual improvement and unlocking new levels of productivity. Partner with Verizon to connect your workforce and factory to measure and improve your overall OEE.



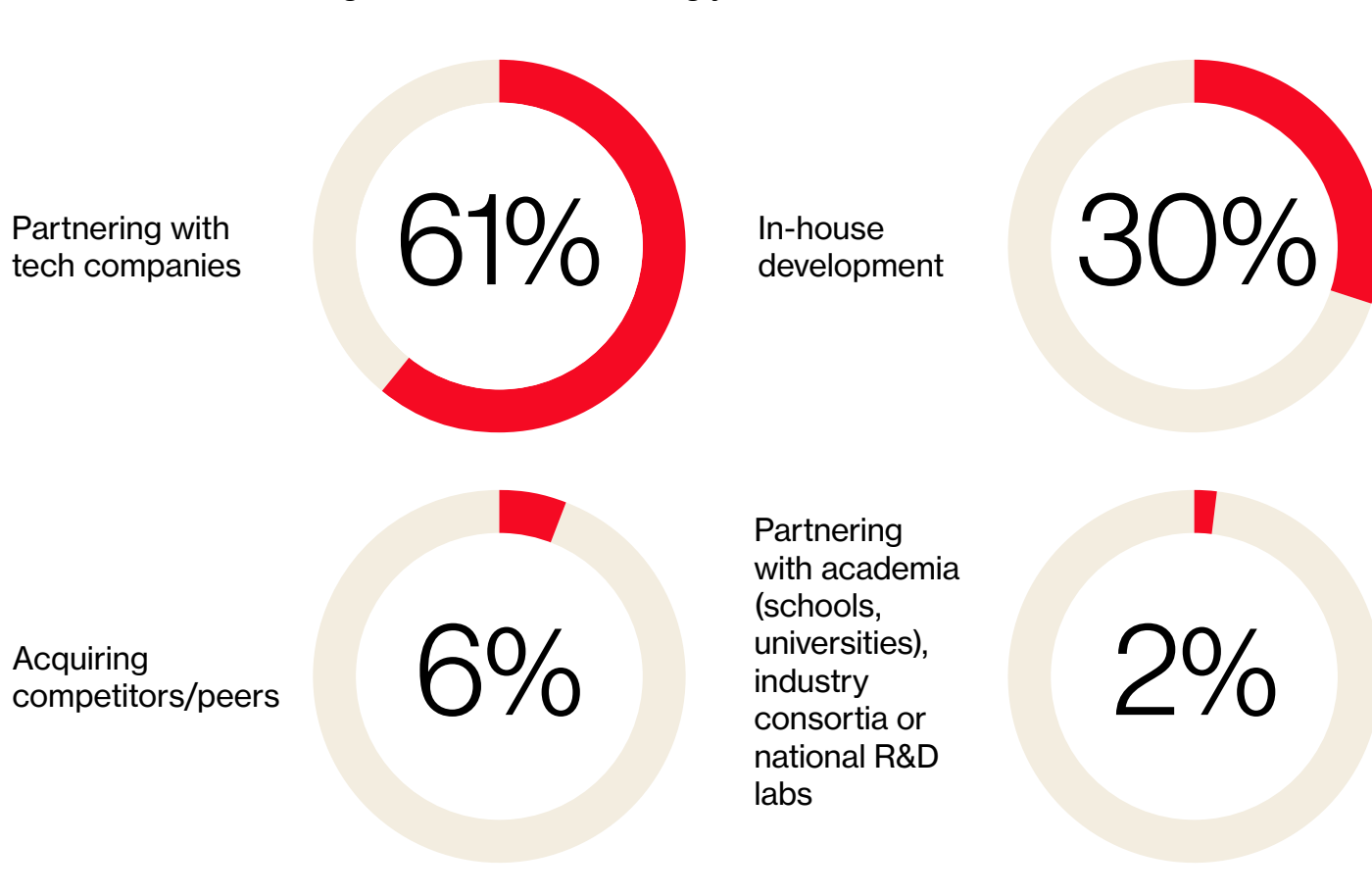
Industrial robots and autonomous factory vehicles reduce labor-intensive tasks, saving time and money.



Embedded sensors enable predictive maintenance before machines break down.

Collaborating for transformation

Here are the primary growth strategies of surveyed manufacturers for smart manufacturing initiatives in the coming years:²



Supply chain agility

Supply chain shortages, including shortages of raw materials needed for production, have had a major impact on manufacturing in the past several years and have resulted in distribution delays. In the factory of the future:



Industrial Internet of Things (IIoT) devices track the movement of raw materials and goods in real time, whether they are on a shop floor, in a warehouse or in transit.



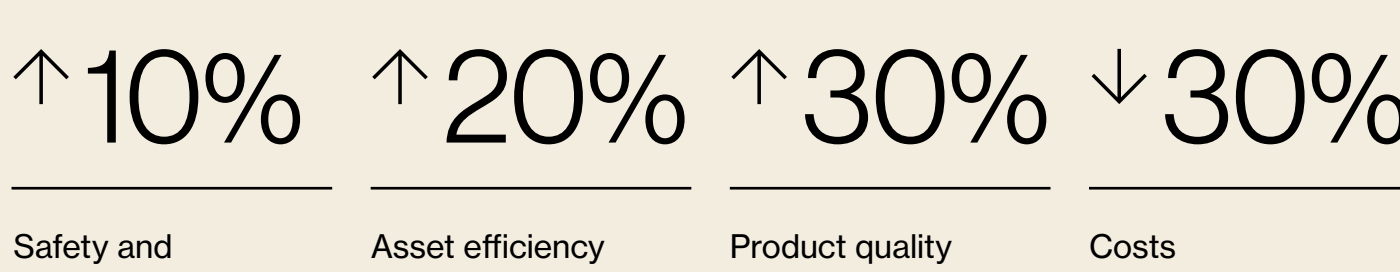
Artificial intelligence and predictive analytics enable supply chain adjustments before issues affect shipments.



Manufacturers receive advance alerts of shortages, triggering automatic ordering from alternate, redundant suppliers.

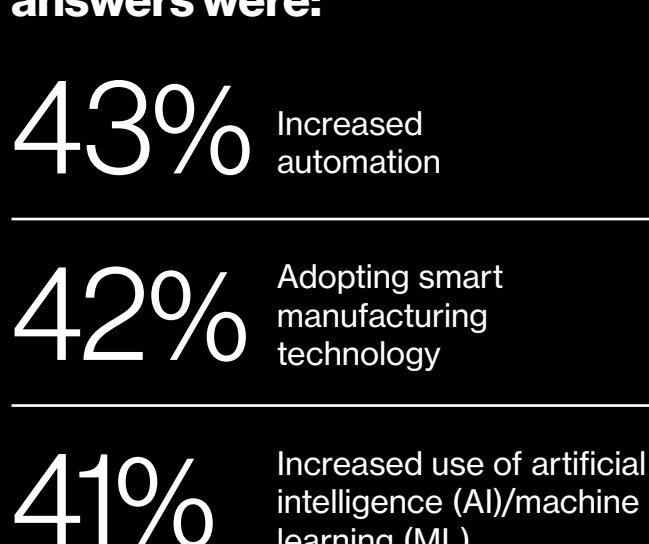
Return on investment (ROI) and operational efficiency

Transitioning to the factory of the future means more resilient and sustainable operations, a reduction in operational costs and increased insight into potential problems. Businesses that undertake a smart factory manufacturing initiative often see benefits such as:³



“How do you plan to drive positive business outcomes over the next five years? Select all that apply.”

Survey respondents' top answers were:⁴



Bringing it all together

The Smart Factory by Deloitte @ Wichita is a joint project between Deloitte and Wichita State University. It runs on the fast, reliable and secure private cellular Verizon network and provides a fully operational factory ecosystem that works with clients on real business problems, helping them transform manufacturing operations.

- The Smart Factory by Deloitte @ Wichita has a team of solution providers, tech innovators and researchers that helps organizations solve problems through smart factory use cases and bring Industry 4.0 to their own factories.
- It demonstrates the benefits of quality sensing and detection; energy management; and a fully connected, cyber-protected tech stack.
- The factory is 60,000 square feet of smart and sustainable innovation powered by a renewable energy smart grid.



To learn more about how Verizon can help you power your manufacturing operations more effectively, visit [verizon.com/business/solutions/industry/manufacturing/connected-factories](https://www.verizon.com/business/solutions/industry/manufacturing/connected-factories).

1. "2023 manufacturing industry outlook," Deloitte, 2022. <https://www2.deloitte.com/content/dam/Deloitte/us/Documents/energy-resources/us-2023-outlook-manufacturing.pdf>
2. Ibid.
3. "2024 manufacturing industry outlook," Deloitte Research Center for Energy & Industrials, October 30, 2023. <https://www2.deloitte.com/us/en/insights/industry/manufacturing/manufacturing-industry-outlook.html>
4. "9th Annual State of Smart Manufacturing Report," Rockwell Automation, March 2024. <https://www.rockwellautomation.com/content/dam/rockwell-automation/documents/pdf/campaigns/state-of-smart-2024/9th-annual-state-of-smart-manufacturing-report-en.pdf>