

Build more efficient, safer processes at the manufacturing edge



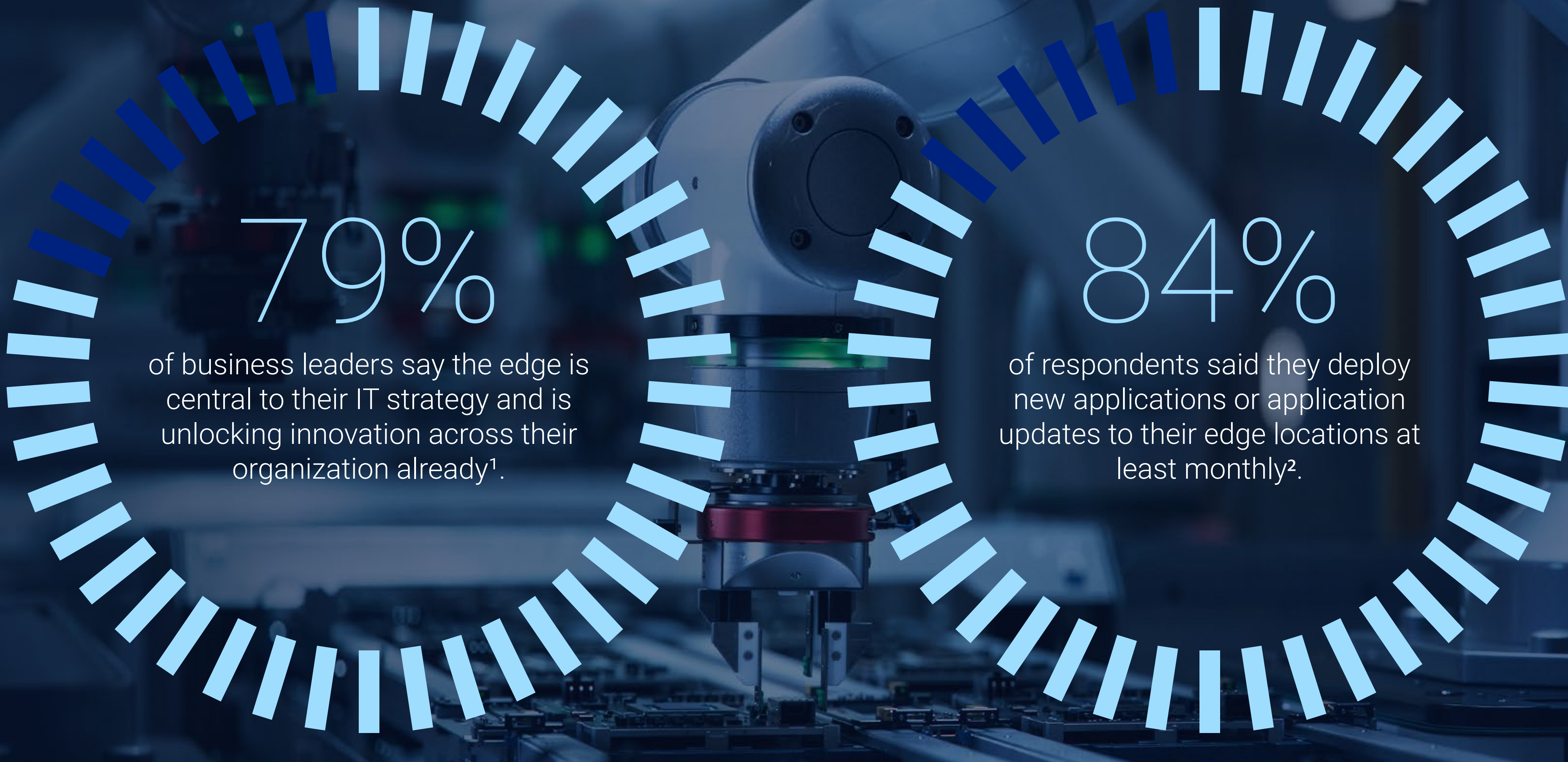
In a sector where productivity is a key differentiator, edge computing is redefining what today's manufacturers can accomplish.

[▶ Watch video](#)

By processing data at the source to generate real-time insights, edge-enabled 'smart' factories are enhancing production quality and safety procedures, reducing mechanical downtime, and closing the skills gap.

Edge and cloud-native technologies are overcoming legacy challenges to enable optimization and innovation, ushering in a new chapter in smart manufacturing.

Edge-enabled innovation



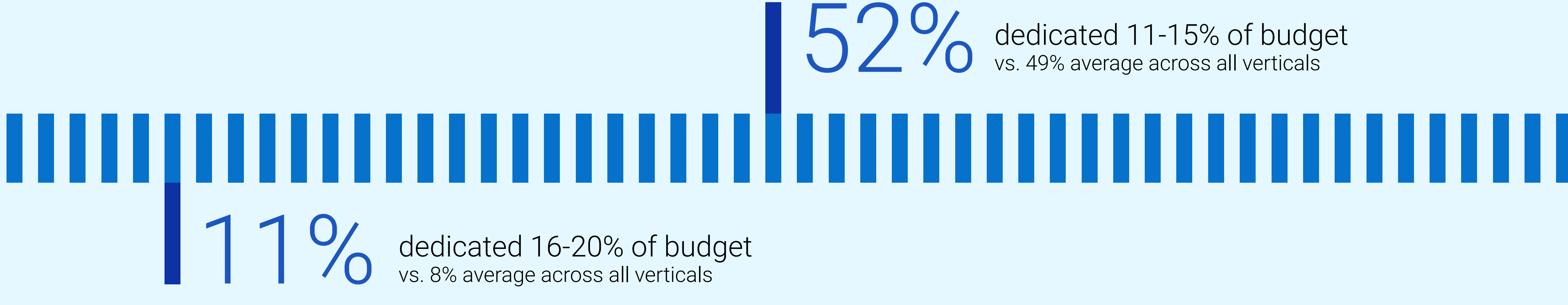
IT challenges manufacturers face at edge locations³

- Lack of cloud-native tools and processes for continuous integration and deployment of applications
- Connectivity issues (e.g., availability, sufficient bandwidth, air-gap requirements, etc.)
- Difficulty creating high-availability environments (i.e., application, network, compute, etc.)
- Difficulty deploying infrastructure at remote locations

Container and/or Function-as-a-Service application challenges⁴



Manufacturers devote more budget to support their edge⁵



Safer, smarter solutions at the manufacturing edge

The rise of edge compute, AI and machine learning has revolutionized how manufacturers approach their operations. Forward-thinking manufacturers are actively addressing challenges such as data silos, fragmented technologies and IT/OT communication. 'Smart' factories are pushing new boundaries in operational productivity, automation, employee safety and more.

Smart Factory Transformation

- Integrate Industrial Internet of Things (IIoT)
- Manage robotics using computer vision
- Reconfigure manufacturing machines dynamically

Processes and Performance

- Streamline factory operations via low latency digital twins
- Analyze real-time operational data
- Maintain machinery proactively

Health, Safety and Compliance

- Flag potential hazards via computer vision
- Implement shut off and safety procedures
- Improve control of sensitive edge data

Cost Optimization

- Expand with scalable technology architecture
- Automate repetitive tasks
- Streamline operations and benefit from faster time to value and improved ROI

Dell Technologies, together with Intel, partner with manufacturers to accelerate from ideas to innovation.

Dell Technologies and Intel work closely with manufacturers to transform their facilities into data-driven, self-improving 'smart' factories. By leveraging Dell's broad portfolio at the edge, manufacturers can develop unique efficiencies that keep them at the forefront of the industry.

Enjoy an edge that's built to last.

Discover why Dell Technologies, together with Intel, are best positioned to be your partners at the edge.

[Learn more at Dell.com/Edge](https://Dell.com/Edge)

¹ The Innovation Index, Dell Technologies, February 2023
² Q27 - ESG Research Edge Use Cases in the Enterprise
³ Q28a - ESG Research Edge Use Cases in the Enterprise
⁴ Q33 - ESG Research Edge Use Cases in the Enterprise
⁵ Q14 - ESG Research Edge Use Cases in the Enterprise