



## MODERN INFRASTRUCTURE AND MULTICLOUD

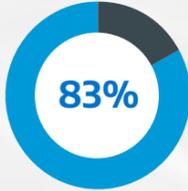
# Edge Infrastructure Unlocks Innovation



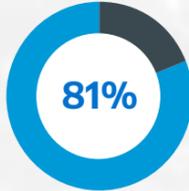
**Edge computing architectures** can dramatically improve the performance of highly distributed business-critical applications, enabling innovation.

Edge computing moves processing to the edge of the enterprise network where it is closest to users and devices — and, most critically, where the data that must be processed is generated.

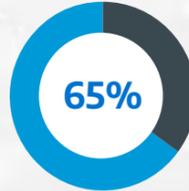
According to Accenture, edge computing is now poised to become a ubiquitous lever of scale and reinvention, especially as AI- and ML-based applications become more pervasive in the enterprise.



think edge computing will be essential for future competitiveness.<sup>1</sup>



believe waiting too long for adoption will lock them out of the benefits.<sup>1</sup>



of respondents are using edge systems to some degree today.<sup>1</sup>

## Compared to their competitors, the most advanced edge adopters are:

**4x more innovative<sup>2</sup>** >>>>

**9x more efficient<sup>2</sup>** >>>>>>>>>>

**Nearly 7x more cost-effective<sup>2</sup>** >>>>>>>>

## Paired with AI, edge computing drives real-world benefits:

**For retailers, AI will increase profitability rates by 59%.<sup>3</sup>**

- Check-out automation/loss prevention
- Shopping recommendation/customer engagement

**For manufacturers, predictive maintenance at the edge reduces downtime by up to 45%.<sup>3</sup>**

- Quality control/visual inspection
- Production line, robotics and process optimization, digital twins

**For financial institutions, credit risk optimization reduces loss and default rates by 20%.<sup>3</sup>**

- Fraud detection and threat intelligence
- Personalized banking and customer service

**For healthcare providers, translation of mammograms occurs 30x faster with 99% accuracy.<sup>3</sup>**

- Medical imaging/diagnosis treatment
- Clinical Decision Support (CDS)

## Massive amount of data created at the edge:

- Only **2%** of data created is processed<sup>3</sup>
- Too much **data** to physically move to the cloud<sup>3</sup>
- Huge **cloud cost** for data intake and process<sup>3</sup>
- Innovation in new **ruggedized, small form factor servers** designed to operate in edge environments<sup>3</sup>

## Edge computing has unique requirements:<sup>3</sup>

### Environmental

- Wide temperature ranges
- Shock and vibration
- Dust filtering and fanless operation
- Low acoustic impact

### Security

- Flexible storage encryption options and secure boot
- Authentication options for secure and efficient local and remote management
- Movement and tamper detection
- Physical security

### Continuity

- Dynamic/intermittent connectivity
- Modified clustering architectures for reduced cluster sizes
- High availability features for rapid recovery

### Management

- Convergence of tooling for data center and edge systems management
- Highly automated systems provisioning and cluster deployment
- New approaches to configuration management

### Sustainability

- Power savings achieved through systems management (telemetry/cooling)
- Recycled composite material and reduced packaging
- DC power options including POE+ and FMP

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Sources:

<sup>1</sup> Accenture, [Leading with Edge: How to Maximize with Data and AI](#)

<sup>2</sup> Accenture, [How Integrating Edge with Cloud, Data and AI Unlocks Value](#)

<sup>3</sup> Lenovo, [Empowering AI Through ThinkEdge AI-ready Platforms](#)

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