



Edge AI is transforming every industry

Satisfy customers and streamline operations by taking AI everywhere it is needed.



Edge AI solutions help turn challenges into competitive advantages

The challenges faced by every industry:

Delivering exceptional customer experience

75%

of customers expect companies to use new tech to improve experiences.¹

Companies must create powerful experiences that engage and delight customers.

Optimizing operational performance

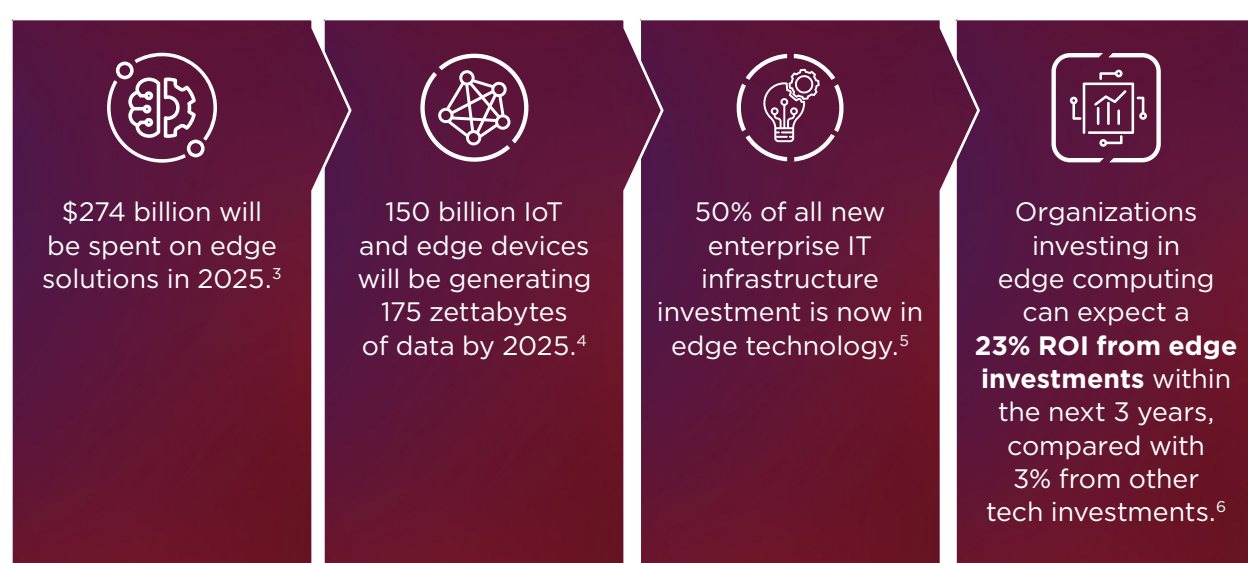
30%

improvement achieved in operational efficiency with edge computing.²

Organizations must develop and maintain highly productive and cost-effective processes.

Modern business is a balancing act. Organizations must find the margins hidden between delivering exceptional customer experience (CX) and optimizing operational performance. **Edge AI can be a vital component in finding the right balance between these two objectives.**

The best return on investment



Powerful computing, when and where it's needed



Edge AI offers:

- 1 Computing power**
Run complex AI algorithms on small, low-power devices, analyze data, and make real-time decisions.
- 2 Processing on-premises**
Offer an optimized low-latency experience and save money on cloud storage and bandwidth costs.
- 3 Reliable storage**
Reduce the risk of data breach by storing data on local networks or edge devices secured with encryption and firewalls.



Edge AI unlocks:

- 1 Performance**
Increase speed, accuracy and real-time decision making through reducing latency and minimizing unnecessary data transfer.
- 2 Resilience**
Deliver resilience through purpose-built devices and applications that enable redundancy, distributed processing and predictive maintenance.
- 3 Security**
Enhance security through data anonymization, data encryption, threat detection, and local data processing that reduces the volume of data transfers over the cloud.

The benefits of computing at the edge:



Low latency

Brings processing data closer to the source and reduces the time it takes for data analysis and action to improve the user experience.



Increased scalability

Scaling at the edge is more efficient as edge devices often cost less than scaling a centralized data center.



Better network utilization

Improves the performance of existing networks by reducing the data sent to off-site locations.



Improved data security

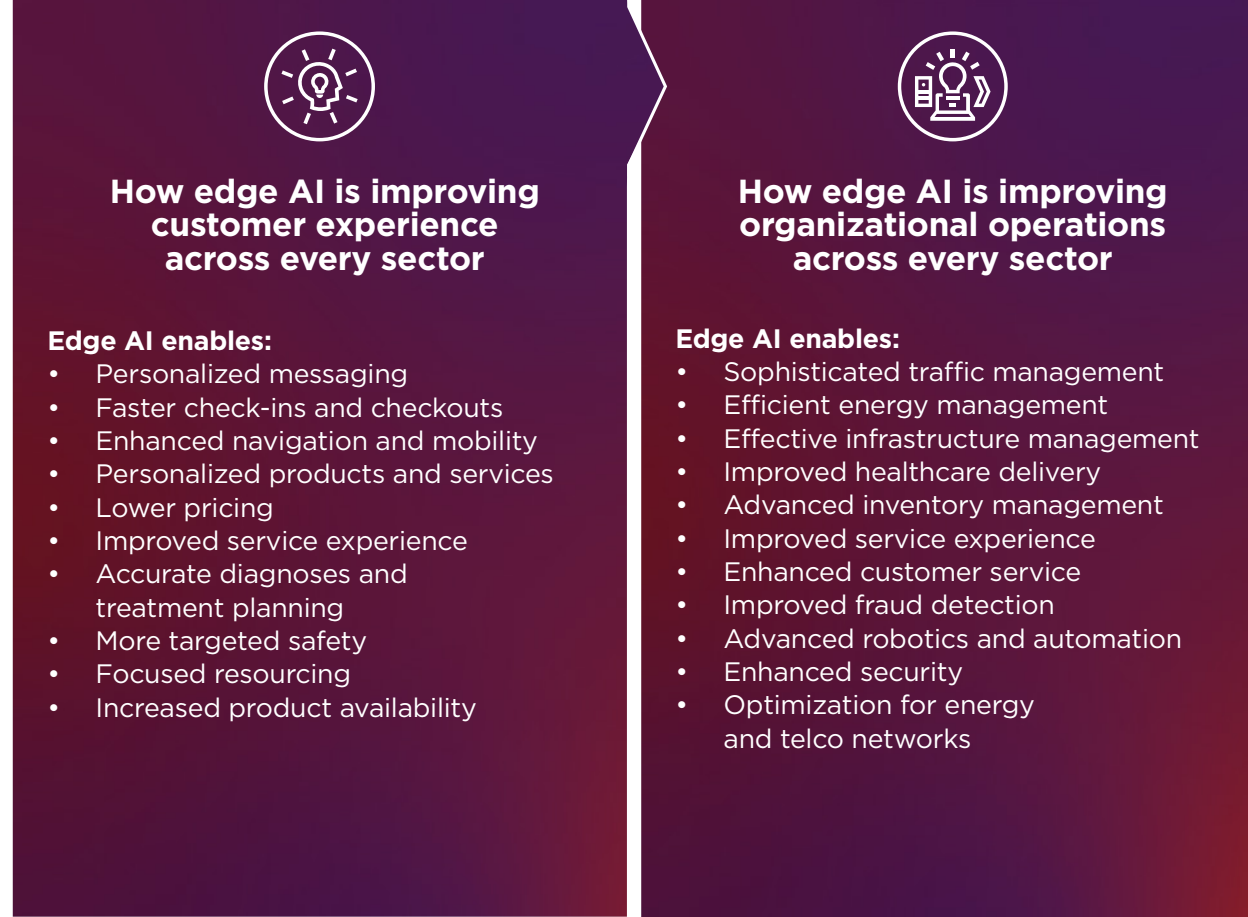
Helps keep sensitive data within the network, reducing the risk of a data breach.



Cost savings

Reduces the need for expensive infrastructure upgrades, cloud storage, and data center facilities.

Designed for every data-centered industry








Benefits for every business

Edge AI is disrupting every industry



Limitless applications

	Retail, restaurants, and QSRs <ol style="list-style-type: none">1. In-store analytics: Analyze and act on customer behavior data to improve CX.2. Price optimization: Analyze sales data and adjust pricing for profitability.3. Inventory management: Monitor stock levels, automate inventory ordering, and gather insights for loss prevention and shrink.
	Manufacturing <ol style="list-style-type: none">1. Robotics automation: Automate repetitive tasks to reduce labor costs.2. Fault detection and prevention: Detect anomalies in production and take corrective action.3. Predictive maintenance: Monitor equipment health and prevent downtime.
	Healthcare <ol style="list-style-type: none">1. Remote patient care: Monitor vital signs and provide remote consultations.2. Medical diagnostics: Analyze sensor data to detect early illness warning signs.3. Drug delivery: Automate deliveries of critical medications to patients in and out of care.
	Energy and telecommunications <ol style="list-style-type: none">1. Smart grid: Monitor power usage and optimize electricity distribution.2. Network optimization: Analyze network data to route traffic efficiently.3. Real-time alerts: Provide notifications when power or connectivity issues occur.
	Smart cities, smart spaces, and smart security <ol style="list-style-type: none">1. Traffic management: Analyze traffic and optimize routes for efficient travel.2. Public safety: Monitor areas for potential threats, such as fires or floods.3. Security: Monitor large areas for intruders or suspicious activity.

Edge AI for your industry

Leverage innovation at the edge to stay ahead of your competition.

Learn how to power market-leading customer experiences and become the most efficient operation in your market with edge computing in Lenovo and NVIDIA's ebook: [Industry transformation driven by edge AI](#).