

# 4 big opportunities waiting beyond the edge

See real-world examples of how organizations are using edge computing to create efficiencies and competitive advantages.



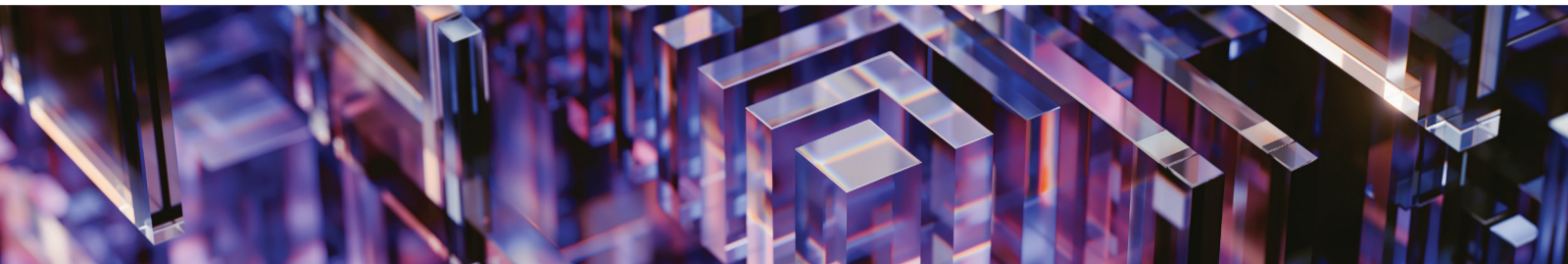
As demands on data are becoming more distributed, organizations are recognizing the value of unlocking insights at the source of their data to solve complex business needs.



53% of organizations deploy internet of things (IoT) solutions and an additional 24% plan to deploy within the next 12 to 24 months.<sup>1</sup>

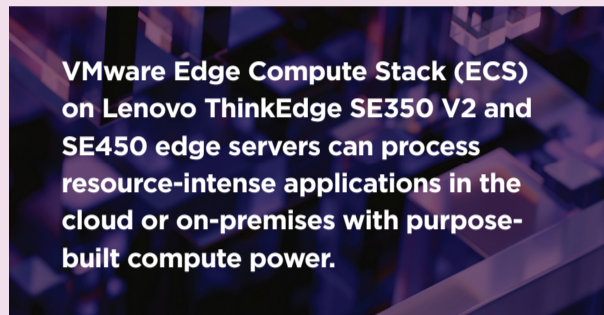


By 2025, 70% of CIOs will rely more on operational data from the “edge.”<sup>2</sup>

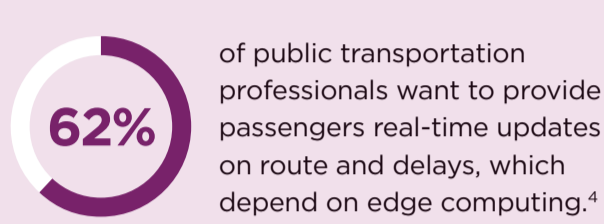


## 1 Set real-time feedback into action

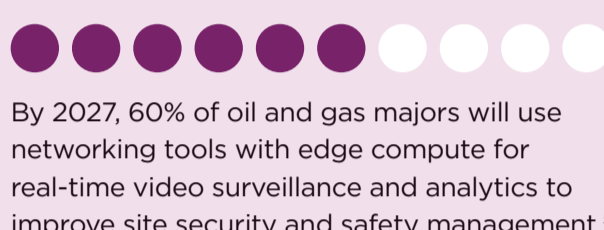
Modern edge infrastructure models, uniquely engineered for low-latency data movement, enable organizations to immediately detect patterns, compute locally where possible, and act in real time to improve performance and experience.



With the help of edge computing for tracking, retailers have seen a



of public transportation professionals want to provide passengers real-time updates on route and delays, which depend on edge computing.<sup>4</sup>



By 2027, 60% of oil and gas majors will use networking tools with edge compute for real-time video surveillance and analytics to improve site security and safety management.<sup>5</sup>

ITDMs report that edge solutions gave them<sup>6</sup>:



reduction in their infrastructure and complexity



increase in their productivity through automation

## 2 Streamline current processes

By embracing edge computing with a turnkey solution, organizations take advantage of accelerated insights to refine their internal processes, creating more agile, resilient, scalable, and efficient outcomes.

“Innovative companies are likely to reduce costs, increase customer engagement, and pioneer entirely new offerings for a piece of the budding market. Investing in technologies such as edge computing and AR/VR devices may become table stakes, so intentional, strategic adoption will be crucial.”

Deloitte<sup>7</sup>

## 3 Strengthen data and privacy protections

Maintaining security at the edge location can be challenging, since the servers are located where the data is collected and used in real-world situations.

However, the security advantages of edge computing — including reduced data transfer exposure online, the ability to manage complex compliance needs within your infrastructure, and the availability of substantial compute power offline — are worth the effort.

“By keeping most of the data on the edge device, rather than transmitting it over the internet to servers, the attack surface for a threat actor to get that data is smaller.”

Nancy Wang, General Manager of Data Protection, AWS<sup>9</sup>



of security professionals say they are concerned about ransomware attacks at the edge.<sup>8</sup>



of ITDMs say the top benefit of edge computing is security/data protection.<sup>6</sup>

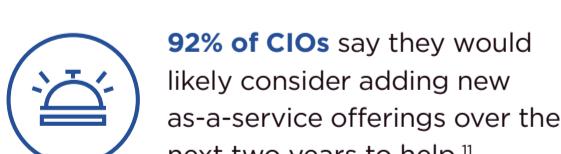
Lenovo ThinkEdge SE350 V2 and SE450 Edge Servers, powered by VMware vSAN two-node clusters, protect data at the endpoint with data-at-rest encryption, integrated Trusted Platform Module (TPM), and Secure Boot support. Lenovo’s secure hardware platform can detect unauthorized movement or tampering in the system and lock down the data for increased security.

Lenovo and VMware provide access to edge computing expertise, the ability to offload operational management, and the ability to easily monitor workloads.

- ✓ From guiding complex business processes to implementation, **Lenovo Professional Services** ensure edge solution success.
- ✓ **Lenovo Infrastructure Services** deliver global end-to-end infrastructure management and lifecycle services along with a dedicated customer success manager.
- ✓ **Lenovo TruScale Infrastructure as a Service (IaaS)** provides the scalability and agility of a cloud pay-as-you-go model with the control and security of an on-premises solution.

## 4 Find support from trusted experts

According to Gartner, “Enterprises that approach edge computing projects are inefficient and less agile and will find their digital ambitions stifled.”<sup>10</sup>



of CIOs say they would likely consider adding new as-a-service offerings over the next two years to help.<sup>11</sup>



of CIOs expect their technology vendors to help simplify configuration, deployment, and maintenance.<sup>11</sup>

Explore how Lenovo and VMware can empower your move beyond the edge.

[www.lenovo.com/VMware-Edge-To-Cloud](http://www.lenovo.com/VMware-Edge-To-Cloud)

Sources  
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