

REGION FOCUS: WORLDWIDE

Modernizing Manufacturing Processes with Edge Computing

The manufacturing industry is automating the optimization of operational processes by modernizing infrastructure and applications with the help of edge computing.



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Driving Value to the Business

Investments in edge computing have a positive impact on the business.

Among manufacturing companies surveyed:



43% improved quality of products and services



38% experienced faster decision processes and actions on local data



29% reduced infrastructure costs (e.g., network bandwidth, servers, and storage)

n = 107; Source: IDC's Lumen Edge Solutions Thought Leadership Survey, November 2022

Benefits of Edge Technology

Infrastructure modernization is extending outside of the datacenter to edge locations.

For manufacturing companies that have adopted edge computing:



62% increased productivity through automating processes



54% improved security and data protection

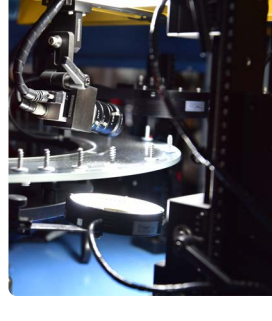


42% reduced infrastructure complexity

n = 107; Source: IDC's Lumen Edge Solutions Thought Leadership Survey, November 2022

Success Through Use Cases

Manufacturers have benefited from an initial set of edge use cases.



Automated in-line optical inspection to detect and flag defects



System-wide process control in real time to regulate and manage processes



Productivity enhancements for existing facilities



Guided workflows using augmented or virtual reality

n = 107; IDC's Lumen Edge Solutions Thought Leadership Survey, November 2022

Leveraging a Trusted Partner in Manufacturing

Short term or long term, the help of a partner can reduce time, cost, and risk.

Among manufacturing companies:



76% employed managed services (ongoing life-cycle management)



68% employed professional services (project-based advisory services)

n = 74; Source: IDC's Lumen Edge Solutions Thought Leadership Survey, November 2022

Essential Guidance to Manufacturers

Follow these best practices to maximize return on investment in modernization projects.



✓ **Embrace edge computing** to improve operations and create differentiation in the market.

✓ **Partner with a service provider** that understands unique industry needs.

✓ **Select use cases** that drive meaningful business and technical benefits.

✓ **Choose project-based and managed services to de-risk the deployment journey** spanning design, implementation, deployment, and support.

Source: IDC's Lumen Edge Solutions Thought Leadership Survey, November 2022

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