IDC surveyed 128 edge computing decision makers to capture the state of edge initiatives within manufacturing, with a focus on where edge is being utilized,

**ABOUT THIS INFOGRAPHIC** 

the benefits, who funds and makes decisions, and the top selection criteria of providers in the space.

## 00101 Manufacturing resiliency relies on data for rapid and effective decisions.

the data is generated.

The Push for Edge Computing



Edge computing lets manufacturers collect, process,

and/or store data at or near the location where



IT/OT departments are converging, and these two groups agree that edge is essential to any connected factory program.



**OT** is far more focused on IT is focused on customer operational efficiency and experience, remote connectivity, better decision making. and product/ service quality.



Q: What are your organization's top 3 expected benefits from edge computing?

Improve security/compliance

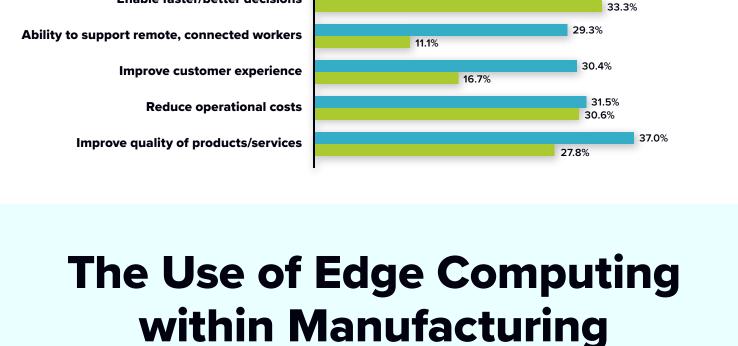


44.4%

21.7%

22.2%

23.9% Improve operational efficiency **Enable faster/better decisions** 



## Only of manufacturers state that edge computing **27%** is currently in production

However, within the next 2 years...

**17%** 

to begin an edge initiative.

and



There is still time for any manufacturer

of manufacturers will move

50.8%

12.5%

Transformation (DX) unit

42.2%

pilots to production

35.2%



**Labor management** 

**SCADA/Control systems** 

15.6%

**function** 

**function** 

**KEY TAKEAWAY:** 

Percentage of Respondents: Currently use Plan to use within 24 months

49.2%

38.3%

but OT leads

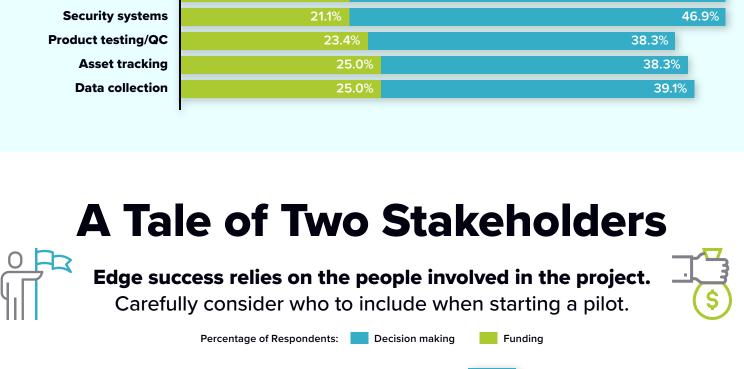
## **Energy management** 18.8% 18.8%

15.6%

Find the best use case or outcome(s) desired.

Data collection and asset tracking are currently the most popular edge

Remote monitoring 45.3% Field service 18.8% 50.0% **Inventory tracking** 39.1% 19.5% **Order tracking** 46.9%



## 12.5% 10.9% 0.0% Solely IT Solely OT Combo of both, Combo of both, **Digital**

but IT leads

While OT is more likely to lead and fund edge projects, the most successful deployments involve both groups from the start.

24.2%

26.6%

These respective viewpoints allow for a more balanced and well-rounded approach.

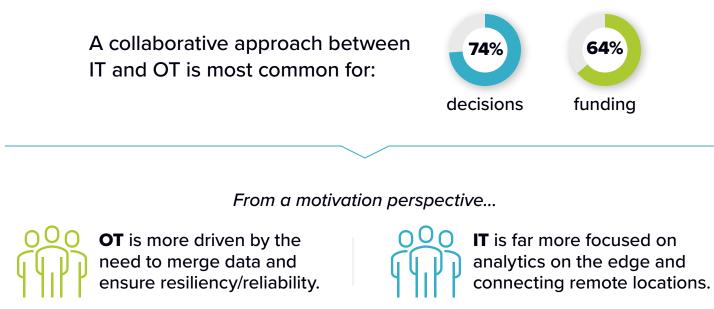
In fact, manufacturers that use IT and OT teams were 47% more

likely to see their edge pilots move into full production.

**Avoiding Pilot Purgatory** 

Getting stuck in the proof of concept (POC) phase is a challenge for many manufacturers.

The most common reasons cited are:





(35.1%)

Securing Security additional concerns funding

Factor in all security risks.

Inventory management (inventory quantities,

Sustainability (energy/resource management)

Operational Performance (throughput/productivity)

Asset Management (reliability/availability of assets)

any KPIs to prove success will only

Innovative offerings that help

organizations transform themselves ... 25.8%

hurt them as they look to expand

into production.

(35.1%)



Identify the infrastructure upgrades required for expansion.

4.2%

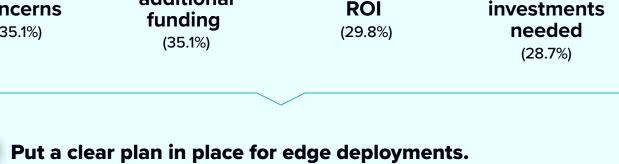
6.9%

6.9%

8.3%

5.6%





**Broader** 

infrastructure

58.8%

61.8%

72.2%

52.9%

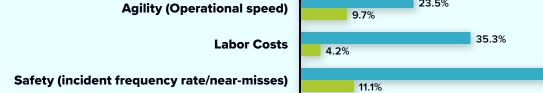
55.9%

32 4%

likely to cite trouble securing additional

funding as the reason preventing

Deep technological expertise, e.g., certified staff



mix, and location)

Security (# of incidents)

None of these

The fact that 72% of manufacturers The data proves the point: companies in the pilot phase are not using not using KPIs were almost twice as

Selecting the Right Partners

expansion.



The industrial environment is changing faster than ever. Edge computing will play an important role in any manufacturer's connectivity strategy.

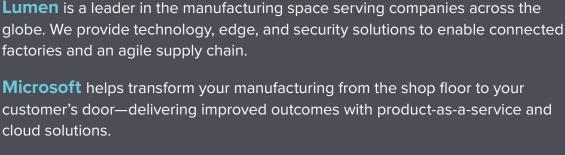
The complexity of the edge journey can make many organizations hesitate, but manufacturers should rely on a combination of IT and OT to determine which functional areas of their business will benefit from edge computing and craft the proper KPIs to demonstrate success.



See how we partner together to provide innovative solutions for the manufacturing industry

endorsement of Lumen's products/or strategies.

**Microsoft** helps transform your manufacturing from the shop floor to your customer's door-delivering improved outcomes with product-as-a-service and





This infographic was produced by:

July 2020 | Doc. #US46613720

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