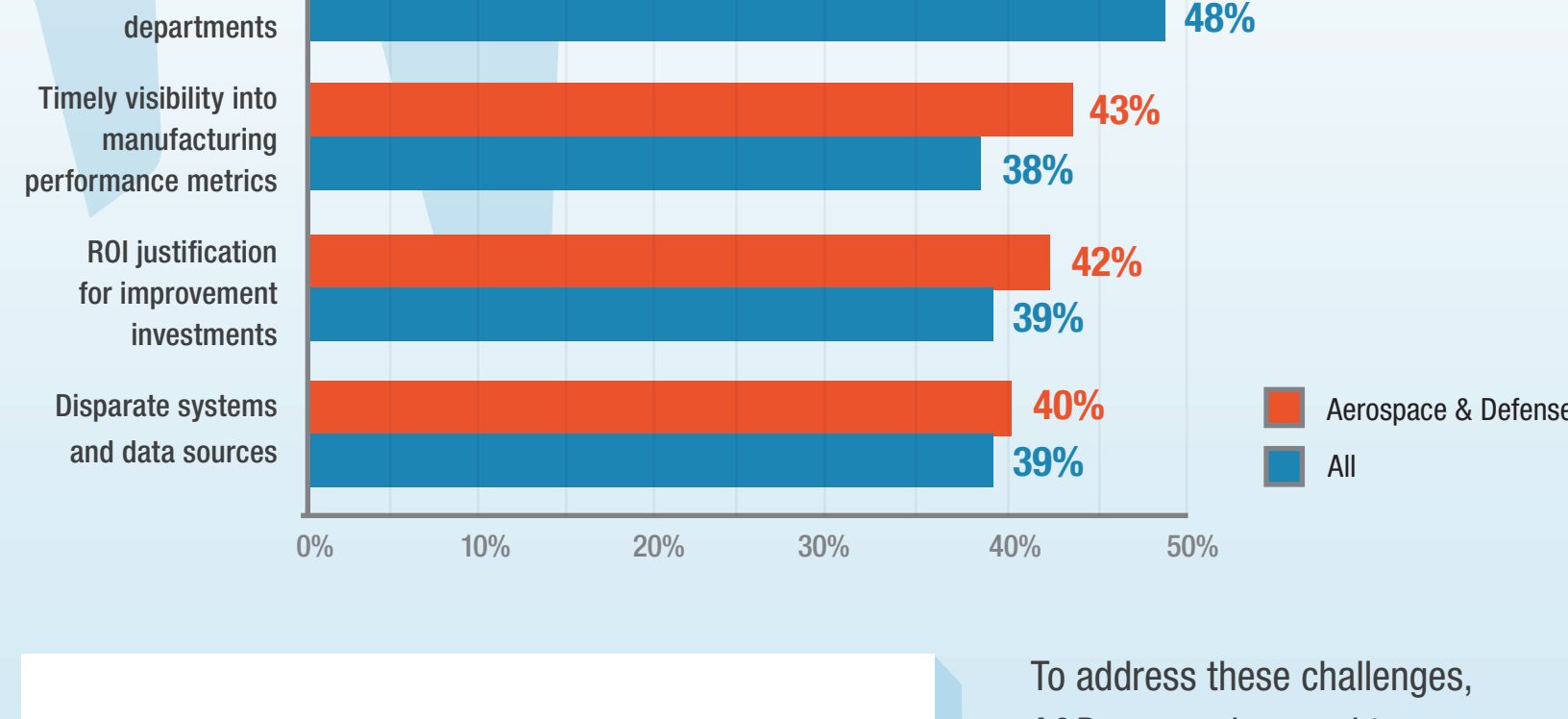


WEAVING THE DIGITAL THREAD in Aerospace and Defense Manufacturing

Strategies for Connecting to the Customer Perspective

In the Aerospace and Defense industry today; supplier networks continue to increase in complexity, regulatory requirements continue to grow, and business models continue to evolve from being product to services based. Based on over 300 survey respondents, LNS Research has identified that these market trends have driven major operational challenges for the industry.

Top Operational Challenges



Collaboration, visibility, ROI, and disparate systems are the top industry challenges

To address these challenges, A&D companies need to ensure end-to-end connectivity across the real and virtual worlds with a digital thread strategy that spans the value chain and leverages new enabling technologies like mobility, cloud, and big data.

The Impact of Mobility, Cloud, and Big Data on Manufacturing

Cloud, Mobility, and Big Data are changing the way Aerospace and Defense manufacturers are approaching manufacturing software. It is allowing these companies to connect across the value chain with a common set of collaboration and visualization tools to give the right decision makers the right information.

Job Roles to Receive Real-Time Data on Mobile Devices



Plant Supervisors

54%



Plant Manager

53%



Maintenance Crews

47%



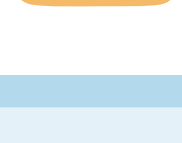
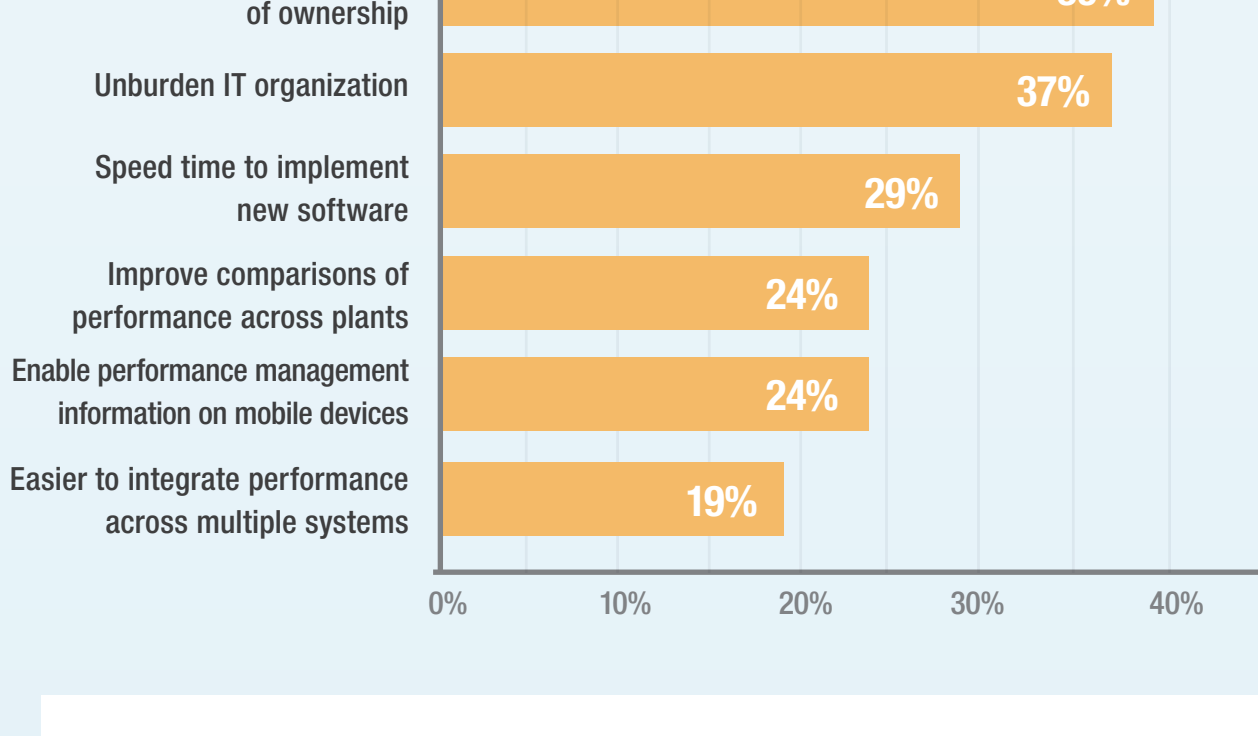
Executives

44%



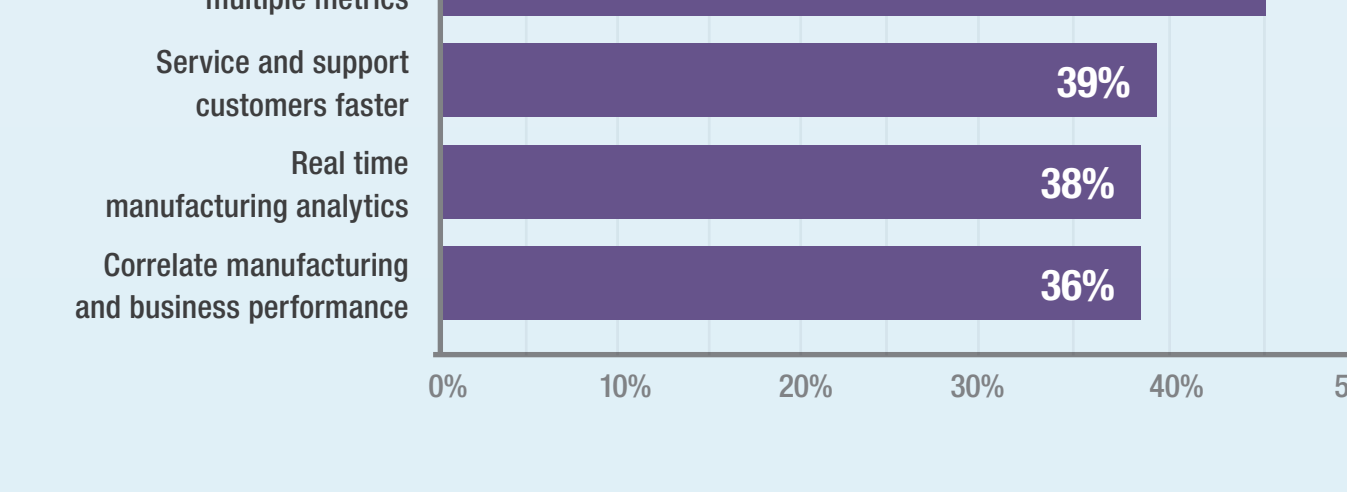
Mobile devices are becoming broadly deployed across the plant and enterprise

The Top Anticipated Impacts of the Cloud on Manufacturing Software



The cloud will reduce cost, free resources, and speed time to value

The Impact of Big Data on Manufacturing



Big data will improve decision making across the supply chain

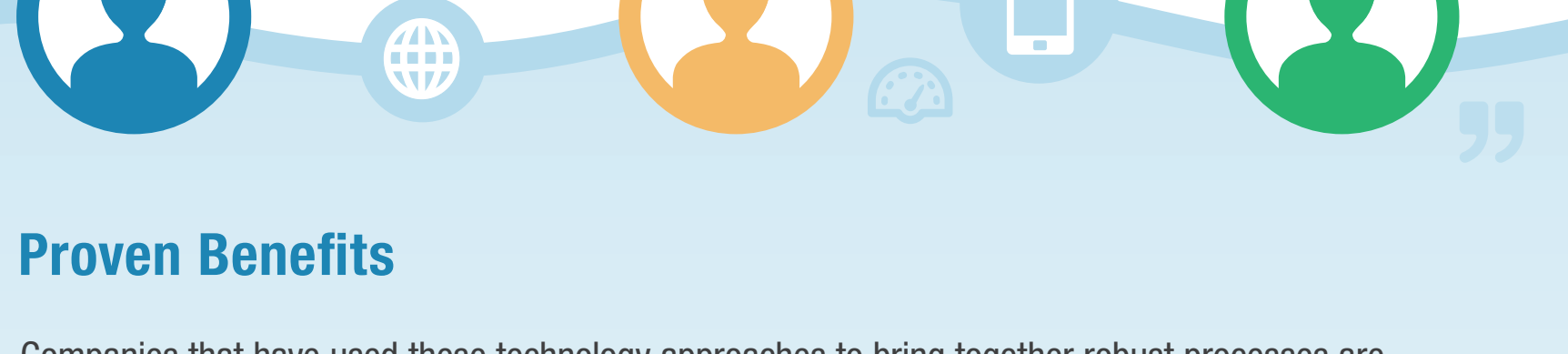
Understanding the Digital Thread

These new emerging technologies will allow A&D manufacturers to implement seamless process and data flows across all enterprise applications that enable collaboration, continuous improvement, improved decision making, quality, and traceability. Using a digital thread strategy, A&D manufacturers will be better able to connect with customers and drive customer requirements through to engineering and manufacturing in a closed-loop fashion.



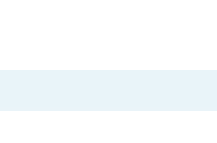
Transforming the User Experience

Capturing knowledge and optimizing each user's personalized experience is a critical component of the digital thread. This occurs by eliminating disconnected and redundant systems with a unified experience that leverages modern technology such as cloud, mobility, and big data analytics.



Proven Benefits

Companies that have used these technology approaches to bring together robust processes are already seeing major improvements in key metrics like Successful New Product Introductions and On Time and Complete Shipments.



Processes in place to rapidly respond to changes in supply and demand

16%

OTCS Improvement



Processes in place to speed new product designs to volume in manufacturing

20%

NPI Improvement

What Now?

1

Concentrate on the flow of information and end-to-end business processes. If your enterprise applications are holding you back, it's time to consider your options, such as cloud deployment of a modern, robust system.

2

Improve visibility and access to analytics, real time personalized information in the context of business processes are critical to improved decision making.

3

Improve collaborative abilities. This provides the ability to turn the digital thread into communication with colleagues, contractors and customers. This give the digital thread its purpose and power.

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