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Five Must-Know Trends In Data And Analytics For Manufacturing

Recent research shows that many manufacturers are investing in data, analytics, and AI for innovation — but still face challenges with sensor/IoT data.

01

Organizations are making strategic commitments to digital transformation and Industry 4.0 strategies.

of manufacturing organizations are allocating budgets exceeding $1 million in the coming year to drive business initiatives

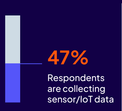
Top business drivers for investments in data and analytics technology

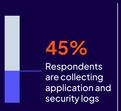
02

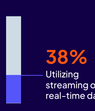
The data deluge is leading manufacturers to adopt real-time analytics as their foremost technology investment priority.

of the respondents ranked "Realtime analytics and reporting" as the top 5 priorities for technology investment in the next 12 months

However, there's a discernible gap between data collection aspirations and current practices. Less than 50% of the respondents are actively collecting sensor/ IoT data or utilizing streaming and real-time data, possibly due to legacy technology constraints.





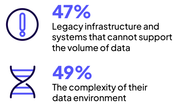


03

Organizations are capitalizing on data and analytics to address a myriad of challenges.

Top business challenges solved by data

Yet, these efforts are hampered by multiple internal challenges associated with using more data across business units.



04

Manufacturers are embracing hybrid or multi-cloud solutions.

48% leverage hybrid data architecture, spanning data centers and clouds, aimed at streamlining operations, reducing costs, and enhancing security and governance.

Impressively, **64%** of hybrid/ multi-cloud adopters acknowledge the effectiveness of this approach in achieving business goals.

As the manufacturing landscape evolves, cloud adoption is set to soar.

A significant 68% of manufacturers plan to increase their cloud-managed data next year, encompassing hybrid, private, and multi-cloud environments.

Notably, **56%** recognize the value of migrating ALL data to hybrid cloud settings.

05

On-prem options are here to stay.

Complexities persist in data environments, with 41% of respondents asserting the necessity of retaining some data on premises or within private clouds. This highlights the role of robust data management platforms in unifying and analyzing data across diverse environments.

The Opportunities

In a nutshell, the survey's findings emphasize that the manufacturing sector is standing on the precipice of data-driven transformation. Investments, strategies, and challenges are intertwined as manufacturers seek to unlock the full potential of their data. Hybrid data architecture and unified data management platforms are poised to play pivotal roles in shaping a data-rich, efficient, and competitive future for manufacturing.

Is your organization investing in the right technologies to win?
Read the full report here

Base: 113 global data practitioners and data leaders in manufacturing
Source: Industry Insights Report — The State of Data and Digital Transformation/Industry 4.0 in the Manufacturing Industry
A commissioned study conducted by Endeavor Business Intelligence on behalf of Cloudera, May 2023

Find out how data leaders in manufacturing are using Cloudera around the world to manage the new demands of data and AI at Cloudera.com/Manufacturing

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