Supply chain disruptions were the #1 risk to domestic and corporate growth, according to executives across industries and regions¹

63% of semiconductor companies reported that they experienced supply chain shortages due to COVID-19²

The chip shortage cost the automotive industry roughly $210B in revenue in 2021³

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66% of companies surveyed state that manual and time-consuming processes are the most challenging part of storing and managing data

Over 60% of semiconductor firms archive data continually throughout the design process because they require fast access to perform upgrades to designs or address bugs

Nearly 70% of companies report that manual and time-consuming processes are the most challenging part of storing and managing data

45% of companies surveyed state they are not planning to move workloads to the cloud, opting for storage in a local data center infrastructure because of security risks or issues with running multiple simulations in parallel

Only 21% of respondents have moved some of their data storage to the cloud

37% of semiconductor businesses reported implementing a ransomware protection plan in the event of successful cyberattacks

58% of those polled have a DR (Disaster Recovery) plan in place, which requires a local data center and remote site to restore lost or corrupted information

Future trends in semiconductor design and manufacturing:

Increased focus on security within a cloud environment

Greater reliance on AI and machine learning for innovation in design tools, infrastructure, and technologies to address growing consumer demand for the latest mobile devices, IoT/IIoT applications, autonomous vehicles and more

Companies will continue to rely on previous chip designs as they try to enter new markets

66% of companies surveyed state that manual and time-consuming processes are the most important considerations for data storage than scalability, multi-protocol access, cloud connectivity, or AI

66% of companies surveyed state that manual and time-consuming processes are the most challenging part of storing and managing data

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For more insights from The Pulse of the Semiconductor Market study, download the report here.

³ AlixPartners, “Shortages Related to Semiconductors to Cost the Auto Industry $210 Billion in Revenues This Year,” 2021.