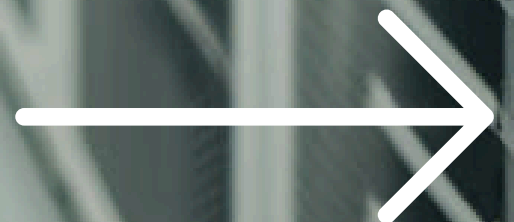


TRENDING TOPICS IN DCIM 2024

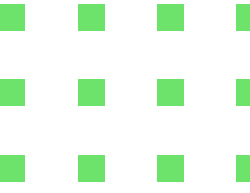




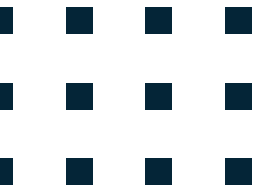
AI AND EDGE COMPUTING



The surge in AI adoption is driving a shift toward edge computing. Data centers are increasingly moving AI computation closer to the edge to reduce latency and improve performance. This trend also emphasizes the need for infrastructure that can support high-density computing, such as liquid cooling systems.



With the growing demand for data processing power, data centers are focusing on sustainable practices. This includes integrating renewable energy sources, improving energy efficiency through technologies like battery energy storage systems (BESS), and enhancing cooling methods. The push for greener operations is also driven by stricter climate reporting regulations and the necessity to reduce carbon emissions.



SUSTAINABILITY AND ENERGY EFFICIENCY





DCIM AND ENVIRONMENTAL REPORTING

Data Center Infrastructure Management tools are gaining prominence, especially in the context of environmental sustainability. DCIM is becoming essential for tracking and reporting carbon emissions, helping data centers meet their environmental goals and comply with new regulations.

As AI workloads increase, so do the demands on power and cooling systems. Innovations like prefabricated modular data centers and advanced cooling technologies are becoming more prevalent. These innovations help in quickly scaling operations while maintaining energy efficiency and reducing the environmental impact



INNOVATIONS IN COOLING AND POWER



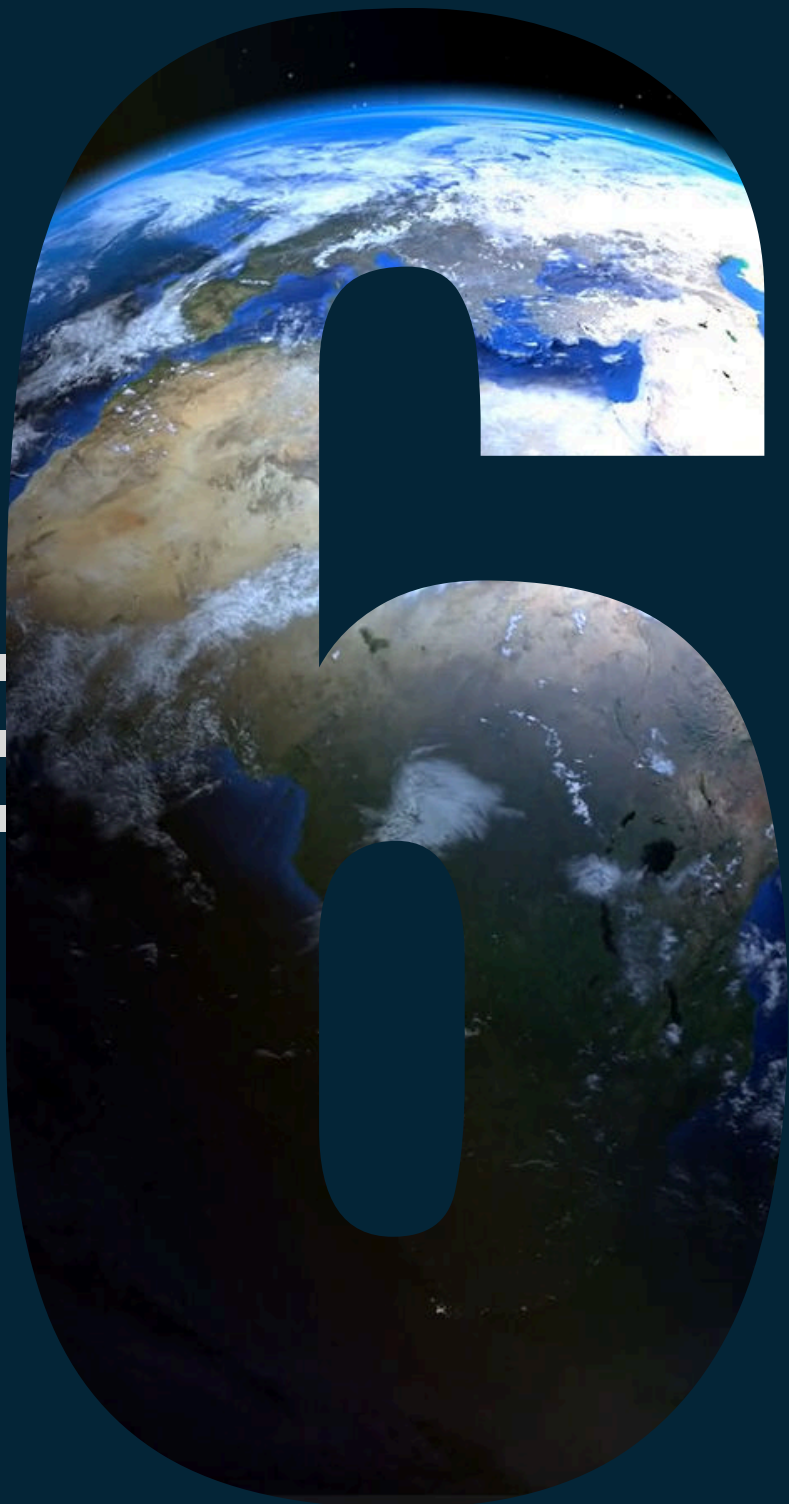
CLOUD RECALIBRATION AND HYBRID SOLUTIONS

While cloud adoption continues to grow, there is a noticeable shift towards hybrid solutions. Organizations are balancing their investments between public cloud services and on-premises or private cloud infrastructures to optimize costs, enhance security, and improve resilience.





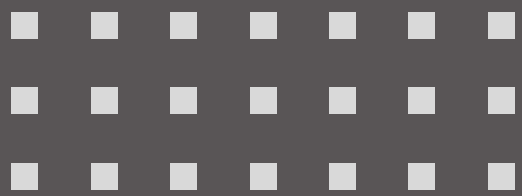
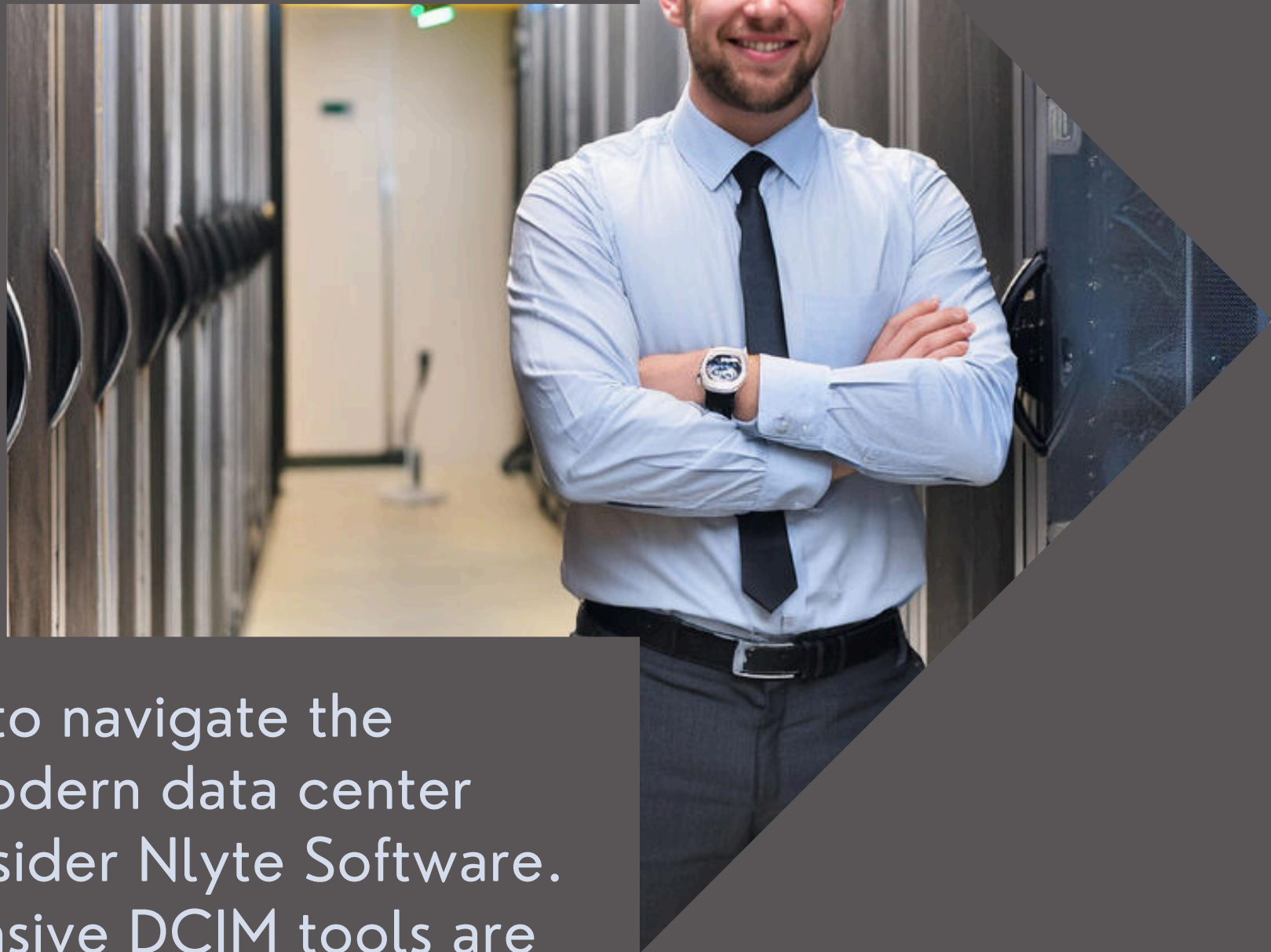
GEOPOLITICS AND SUPPLY CHAIN DIVERSIFICATION



Geopolitical factors are increasingly affecting data center operations. The need for greater transparency in the supply chain, especially regarding the sourcing of critical components like semiconductors and GPUs, is becoming more pronounced. Data centers are diversifying their supply chains to include regions like Vietnam, Eastern Europe, and Mexico to mitigate risks and meet regulatory requirements.



Nlyte[®] Software



If you are looking to navigate the complexities of modern data center infrastructure, consider Nlyte Software. Nlyte's comprehensive DCIM tools are essential for managing high-density workloads, optimizing energy use, and ensuring compliance with the latest environmental regulations. Their expertise can help you transform your data center operations to be more resilient, efficient, and sustainable.

Visit nlyte.com to stay ahead in the evolving landscape of data center management.