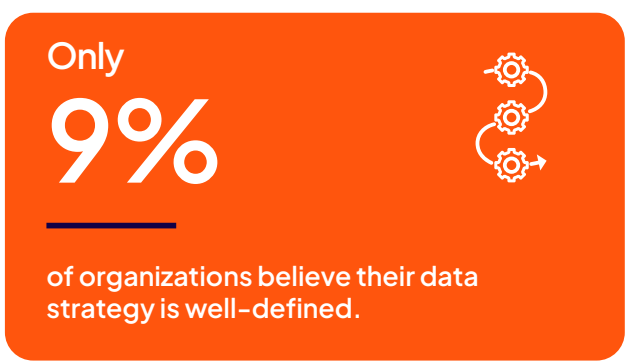


The Great AI Re-Architecture: How AI Is Reshaping Where Data Lives

AI is forcing organizations to rethink long-standing assumptions about infrastructure beyond the usual considerations (cost or vendor lock-in). As AI moves from experimentation to enterprise-wide deployment, infrastructure has become a strategic priority. Organizations are redesigning their architectures to support the performance, governance, sovereignty, and flexibility to scale AI successfully.

AI Is Triggering a Major Infrastructure Shift

Last year's [State of Enterprise AI and Data Architecture](#) exposed the limits of legacy data architectures for AI. This year, organizations are redesigning where data lives and AI workloads run to improve performance, governance, and scale.



What are the leading forces driving AI infrastructure change?

- Data security, governance, and compliance
- Performance and latency
- Scaling AI initiatives across the business
- Cost optimization
- Real-time or edge-based AI capabilities

Governance Is Becoming AI's Biggest Obstacle

As AI scales, governance complexity is growing faster than many organizations anticipated and becoming a major force shaping which use cases reach production.

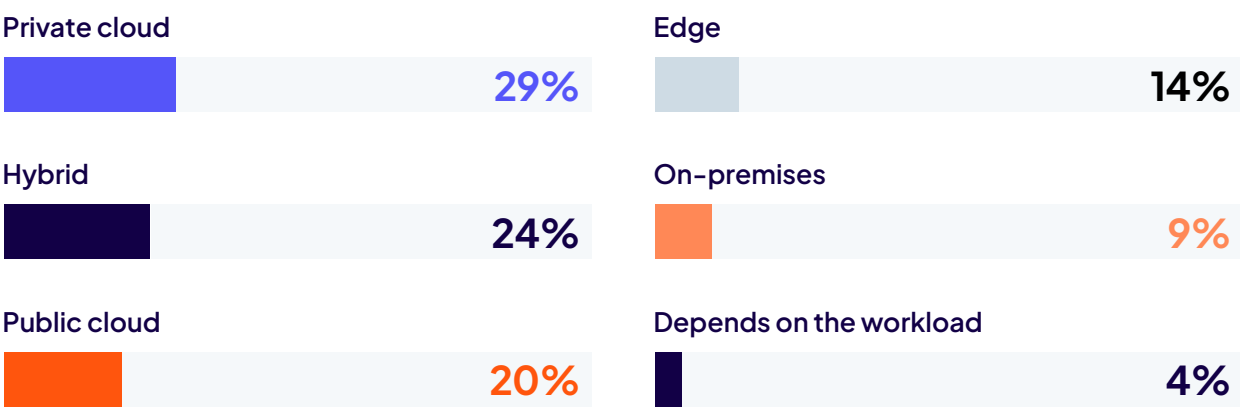
A staggering **95%**



of organizations delayed or canceled at least one AI project due to data governance, compliance, or regulatory complexity.

No single environment has solved AI governance.

Organizations report governance challenges across environments:

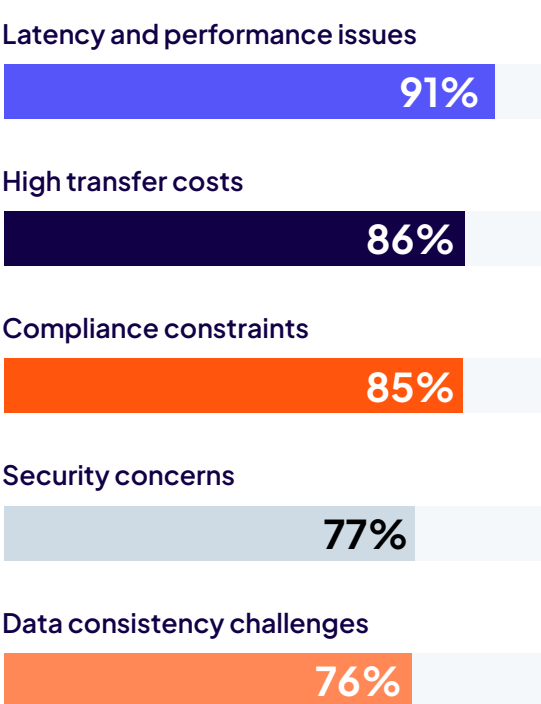


Data Movement Is the New Infrastructure Battleground

Last year's challenge was accessing data across environments. Today, organizations are moving it constantly and balancing the performance, cost, and governance trade-offs that come with it.



Moving data requires balancing competing priorities:



The Cloud-Only Era Is Giving Way to Hybrid

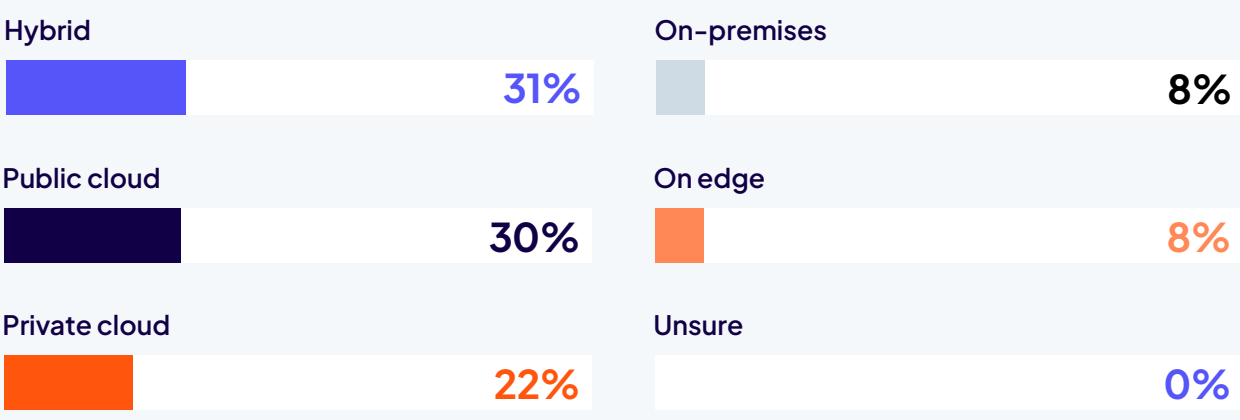
AI is driving a more distributed approach to data and workload placement.

66%



of organizations have moved at least some AI workloads from public cloud environments back to private cloud, on-premises, or sovereign infrastructure.

Where organizations' AI inference workloads are primarily executed:



AI workloads should run where they perform best.

What's Next

The rise of enterprise AI is driving a fundamental re-architecture of data infrastructure. Organizations are moving toward hybrid, distributed environments that better balance performance, governance, cost, and flexibility. Future-ready AI strategies will rely on running data and AI workloads where they deliver the greatest business value while maintaining control across increasingly complex environments.

[Read the Full Report](#)