TAME MULTICLOUD WITH AI-INFUSED DATA MANAGEMENT

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From the largest enterprise to the smallest business, forward-thinking organizations leverage AI within their data management systems to take advantage of multicloud, reduce complexity, increase performance, and prepare for future innovations.

Your organization, like many others today, is transforming its IT infrastructure, especially when it comes to utilizing multiple vendors, as well as private and hybrid cloud systems. These changes have a huge impact on your ability to manage and better utilize the vast amounts of data flowing into your business.

You know that modern data demands are increasing exponentially, both in volume and variety, as are the methods used to get the most out of this data.

You are aware of the complexity and challenges associated with the sheer volume of this data and that new technologies like AI present innovative opportunities to improve how analytics and applications use this information.

It's also likely that, like many other businesses today, your organization is using multiple public clouds and trying to utilize a hybrid cloud infrastructure.

But here's the tough part: The traditional data management and DBaaS systems on which you rely may not be ready to handle these demands and overcome these challenges.

And that's what's been keeping you up at night!

It's undeniable that businesses relying on older systems miss out on the key innovation and increased ROI benefits for their data systems. But when organizations take advantage of multicloud, integration-ready, modern data-management systems that are built from the ground up to handle emerging technologies like AI, they are able to gain these benefits — and more.

In the following sections, we'll look at the challenges and complexities that business leaders face when transforming data capabilities and infrastructures. Then, we'll analyze how the adoption of next generation, AI-infused data systems allows organizations to be more innovative, agile, and efficient.

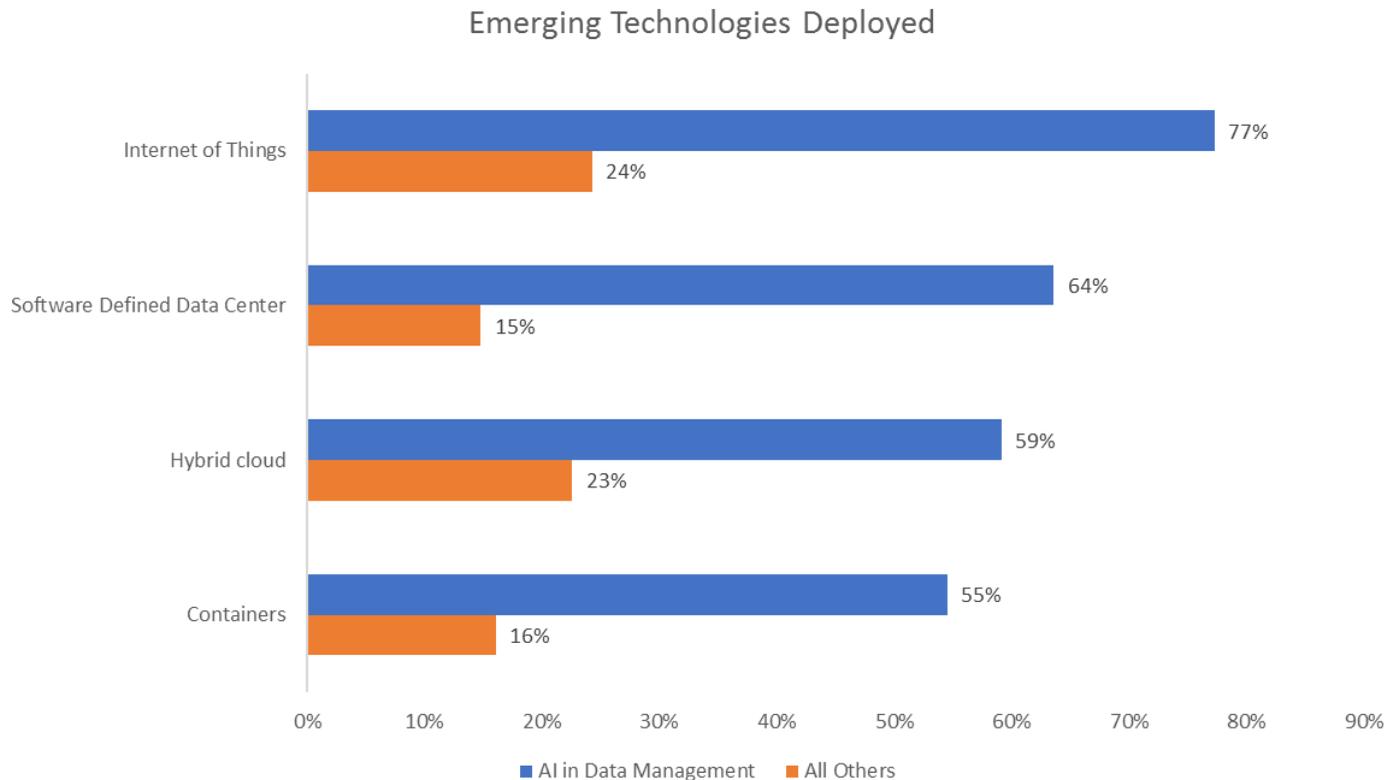## The Intelligent Path to Data Success

There are many new technologies transforming the ways we live and do business. Clearly, one of the most impactful is artificial intelligence.

New innovations in AI not only provide us with smarter assistants in both home and mobile devices; they also provide enterprises with cutting-edge capabilities in analytics, automation, and data analytics. Used correctly, AI can help businesses make new discoveries while unlocking capabilities that were unimaginable until recently.

Today, it's no surprise that many organizations are seeking ways to leverage AI. Aberdeen's research finds that 43% of businesses have implemented some form of AI, already.

One of the interesting things Aberdeen's research reveals is that AI often enables even more innovations and transformations. As shown in Figure 1, businesses that use AI as part of their data management systems are also much more likely to have adopted other new technologies. This difference is consistent across the board.

Figure 1: AI Drives Data Innovation

Emerging Technologies Deployed

Internet of Things: AI in Data Management 77%, All Others 24%
Software Defined Data Center: AI in Data Management 64%, All Others 15%
Hybrid cloud: AI in Data Management 59%, All Others 23%
Containers: AI in Data Management 55%, All Others 16%

■ AI in Data Management   ■ All Others

Businesses with AI-infused data management are three times more likely to be utilizing IoT, more than twice as likely to be taking advantage of hybrid cloud, and more than three times as likely to be using containers and microservices than their less-innovative competitors.

With AI driving their data systems, these leading organizations are better able to control the influx of data from IoT, lower the complexity of managing hybrid environments, and build cutting-edge smart applications using containers.

Building a More Intelligent Data Infrastructure

While we've seen that many businesses are investigating and implementing AI, there are still many myths and misconceptions. Some organizations still believe that AI is too complex or costly to adopt. However, advances in new systems — especially in data management — have lowered barriers to adopting AI.

As shown in Table 1, organizations that leverage AI in their data infrastructure are not only more innovative, they also gain key, competitive advantages.

Table 1: Reaping the Benefits of AI-Ready Data Systems

Businesses featuring AI-ready data systems are:

60%	more likely to lower IT costs.
30%	more likely to decrease data management complexity.
60%	more likely to speed data access.

By implementing AI-infused data infrastructures, leading businesses are more likely to decrease IT costs, indicating misplaced concerns regarding high AI costs. Also, with AI driving data management, these organizations decrease complexity while improving performance in both data access and management.

Decreased complexity helps these businesses to get the most out of their multicloud infrastructure. (Aberdeen's research finds that 80% of businesses using the cloud work with multicloud infrastructures.) With lower management barriers and better performance, these businesses overcome the challenge of multicloud infrastructures and get the most out of the advantages that each cloud provider brings.

Key Takeaways

Today, virtually every business recognizes that we are swiftly moving towards a world where AI capabilities drive technology creation, deployment, utilization, and analysis. Leading businesses implement AI-infused data-management systems to increase innovation, boost capabilities, and lower barriers to leverage mutlicloud and increase the variety and volume of data with which all organizations deal.

When it comes to transforming and energizing data systems, don't let your business fall short. Consider these key takeaways to build a smarter data infrastructure:

▶ **Be Innovative and Future-Ready**: Leading organizations understand that they gain efficiencies and a competitive edge by leveraging innovative technologies like AI. And, they make sure to design their data infrastructure to work with these technologies from the ground up.

▶ **Get the Most from Multicloud**: Many organizations must deal with multiple cloud providers while working to implement hybrid cloud infrastructures. By leveraging intelligent, AI-infused management, these businesses can maximize value from every source while improving data access.

▶ **Make Sure to Involve All Stakeholders**: Data is not just *everywhere*; it touches *everyone* within an organization. Leaders get consensus across stakeholders to ensure their intelligent data infrastructure will stand and deliver.

Getting the most out of new technologies means having intelligent systems and understanding how to overcome challenges while boosting innovation. Leading businesses implement AI-ready data systems to reduce complexity and prepare themselves for the data demands of today and tomorrow.

About Aberdeen

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