

WAKEFIELD

CDO Insights 2024: Charting a Course to AI Readiness

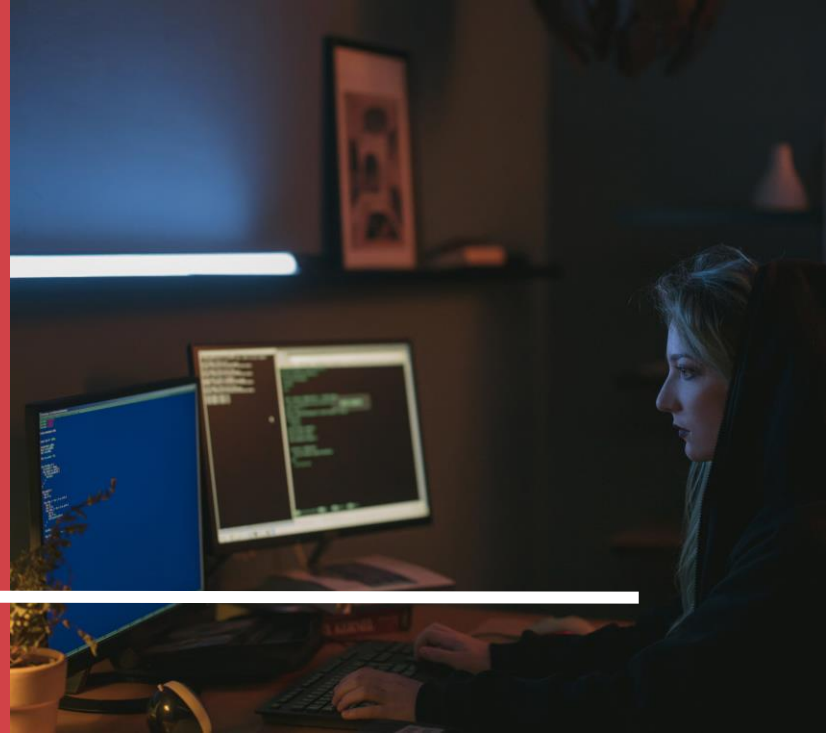
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Executive Summary



As generative artificial intelligence (AI) becomes more powerful—and businesses struggle to keep up—the race to implement is heating up: more than 2 in 5 data leaders (45%) work at companies that have already integrated generative AI into their business processes, and 54% expect to implement this tech. But this valuable solution is only as good as the quality of the data it's provided. **Among data leaders implementing or planning to implement generative AI, the quality of data (42%) is the top data-related obstacle to the adoption of generative AI and large language models (LLMs) reveals a survey of 600 data leaders from companies with \$500M+ in revenue from the U.S., EU, and APAC regions conducted by Wakefield Research on behalf of Informatica.**

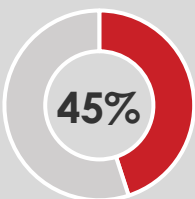
To address this, data leaders are making data investments to overcome AI roadblocks. **Not only do 78% of data leaders predict their organization's level of investments will increase in 2024—including 33% who predict *significant* increases—but 100% of data leaders specifically plan to invest in data management capabilities to support their data strategy priorities.** This is a double-edged sword: among those predicting data management investment, 58% expect to use 5 or more tools for this crucial part of their work—tools that 49% have half or fewer available as cloud-hosted services. And data sources are expanding as well: 41% admit they're juggling 1,000 or more data sources—a number 79% expect to increase in 2024.

As a result, AI, its challenges, and data quality are all rising on data leaders' list of priorities for the year ahead. **Top data strategy priorities for 2024 include delivering reliable and consistent data fit for generative AI (39%), improving data-driven culture and data literacy (39%), and improving governance over data and data processes (38%).** These all highlight the need to push beyond implementing and toward maximizing AI's efficacy and making the most of their investments—a point made even more clear by the 43% using AI readiness as a top metric for measuring their data strategy effectiveness.

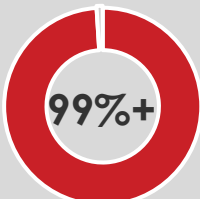
Given the pressure to capitalize on AI, as well as deliver on a wide range of data priorities and must-haves, data leaders' plans to invest in new tools may be seen as a relief for CDOs struggling with an ever-expanding portfolio of responsibilities and duties. But just because leaders agree on data management as a solution does not mean they have aligned on *how* to use it—nor is it clear that they have the resources necessary to implement it effectively.

Key Findings

Data Leaders Are Capitalizing on Generative AI



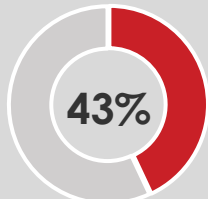
have already implemented generative AI, with another 54% planning to do so



of AI adopters plan to use AI to address their data management needs

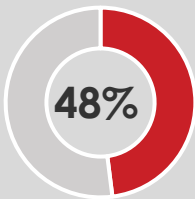


of AI adopters have encountered roadblocks on their AI journey

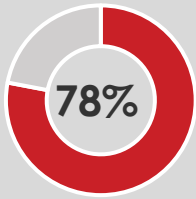


list AI readiness as a top metric for measuring their data strategy effectiveness

Next Steps for AI and Data Management



would consider upskilling or reskilling their employees on AI or machine learning



predict increased data investment in 2024, marking an interest in solutions



plan to invest in data management capabilities—indicating that this is perhaps the core solution for their data strategy woes



An AI Boom

As generative AI becomes the new normal, data strategies must keep up, as do priorities around adoption and investments. **An impressive 45% have already adopted generative AI (including 50% in the U.S. and 48% in the UK/EU) and another 54% anticipate doing so, including 36% who expect to adopt it within two years**—which explains why delivering reliable and consistent data fit for generative AI (39%) is the most commonly cited main priority for organizations' data strategies. More than 2 in 5 (41%) even rank generative AI as a top priority for data strategies from a broader market perspective with AI governance/ethics not far behind—it tops the list among APAC data leaders (41%).

To accomplish this, data leaders who have implemented or plan to implement AI are considering a variety of tactics, especially prompt engineering with third party LLMs (57%). **A majority (51%) are evaluating or plan to evaluate open-source LLMs, with 48% implementing or planning to implement retrieval-augmented generation (RAG) with LLMs.** While fine-tuning public LLMs (44%) and customizing LLMs (43%) are less popular, they are still being considered by more than 2 in 5 data leaders.

But adopting generative AI has not been easy. **All who are adopting or planning to adopt generative AI (more than 99%) have encountered challenges, including quality of data (42%, led by 49% of those in the U.S.) and data privacy & protection (40%)—familiar big picture issues data leaders face elsewhere.** And AI comes with its own unique challenges as well, including AI

ethics (38%), quantity of domain-specific data for training and fine-tuning of LLMs (38%), and AI governance (36%). Other AI challenges include regulatory compliance (33%), avoiding bias (32%), and preparing unstructured data to work with LLMs (32%).

Top Generative AI Challenges



But as much as generative AI is proving difficult to implement, data leaders foresee the effort being worth it, especially given their emphasis on data management.

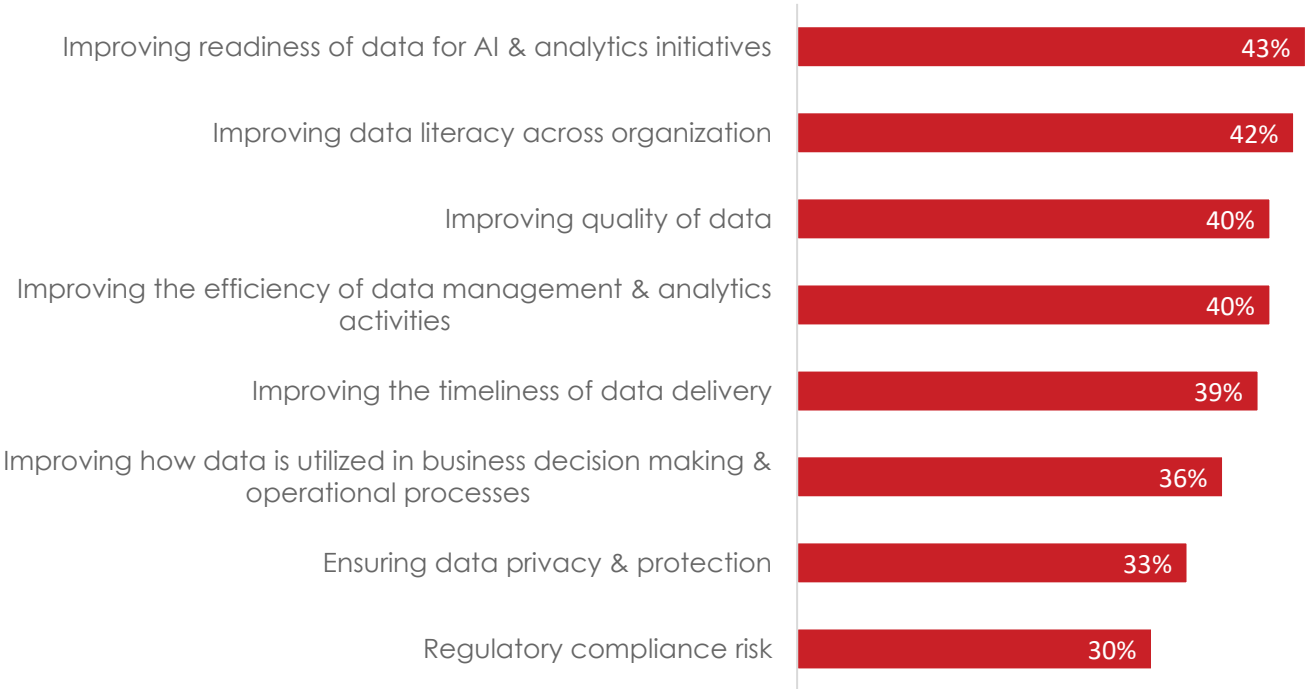
Among those implementing or planning to implement generative AI, 73% use or plan to use this tech to improve time to value with faster insights from data; another 66% are looking to drive more productivity through automation and augmentation, while 3 in 5 (60%) use or plan to use generative AI to enable more self-service and data democratization. This transformative technology is not without its challenges, but moving forward, data leaders' optimism for its use belies both its promise as well as the need to advance data management and other data quality priorities.



Spotlight: AI and ROI

AI has even permeated how data leaders measure their ROI. **At 43%, improving readiness of data for AI and analytics initiatives is the most common metric for measuring data strategy effectiveness.** This metric is emerging as ROI continues to impact how data leaders view the big picture: 45% cite an inability to justify ROI for budget as a main organizational obstacle to executing their data strategy—marking AI as a potential solution to this frustration.

Metrics for Measuring Data Strategy Effectiveness



Readiness and Roadblocks

Data leaders are encountering several roadblocks to their data management priorities—calling the effectiveness of their investments into question. And as the state of data management grows more complex and demanding, so do the demands placed on data leaders. **A full 99% cite data- or tech-related obstacles to realizing their data strategy, with several issues emerging to sound the alarm.** Not only do 38% grapple with an increasing volume and variety of data—41% already struggle with 1,000+ sources and 79% expect that number to increase in 2024—but they have to contend with that data being in higher demand: an increasing number of data consumers (39%) tops data leaders' list of data/tech obstacles to realizing their data strategy. Additionally, 30% cite being unable to scale data delivery when and where needed, highlighting that it is not just the data, but the consumer, that is making data leaders' jobs more difficult.

Data- and Tech-Related Roadblocks to Realizing Data Strategy



These roadblocks come as data leaders juggle their main 2024 data strategy priorities, including **delivering reliable and consistent data that is fit for generative AI (39% globally, and 45% in the EU/UK), improving data-driven culture and data literacy (39%) and improving governance over data and data processes (38%).** Other priorities include improving data privacy and security (36%), as

well as driving more automation in their data management and governance processes (34%).

These data-specific priorities align with data leaders' major business priorities for 2024, which include improving security and privacy of their data (39%) and improving business agility by adopting new technologies (39%), as well as improving customer experience (38%). This highlights how data leaders are aligning their big picture goals with an emphasis on data to capitalize on their efforts and convert data into real growth.

But while these top data leaders' priorities, they're just one part of the ever-widening swath of problems they need to address. This includes tech- and data-related issues, such as the inability to minimize risks related to industry regulations and compliance laws (35%), which could be complicating their frustration with their inability to manage access to private and sensitive data (33%); 34% recognize their lack of complete view and understanding of their data estate, many are realizing it is too fractured: 33% cite data or application silos and fragmentation among their top obstacles.

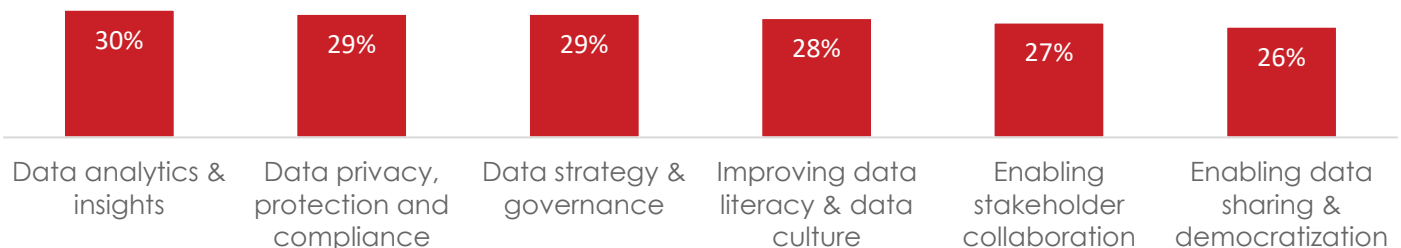
But perhaps more surprising than their technical roadblocks are the 98% who admit to organizational obstacles holding back their data strategy, including lack of support from business leadership (45% globally, including 51% in the UK/EU), inability to justify ROI for budget (45%), and lack of cooperation/alignment across business units (44%)—all of which are more prevalent than any single tech or data obstacle. AI offers tremendous promise for data's potential, but aligning an entire organization behind it will become increasingly difficult as data leaders contend with multiple priorities as well as multiple roadblocks.



Spotlight: What A Data Leader Does

Data leaders are tasked with a variety of responsibilities, with data analytics and insights (30%), data privacy, protection and compliance (29%), and data strategy and governance (29%) the most likely to be ranked top—but not far behind are a multitude of other, more organizational responsibilities, including improving data literacy and data culture (28%), enabling stakeholder collaboration (27%) and enabling data sharing & democratization (26% globally, including 30% in the U.S.). Other top responsibilities include delivering usable, trusted data for decision-making (25%), and defining and measuring data-related performance metrics (25% globally, including 31% in the UK/EU), as well as enabling AI initiatives (24%) and managing and mitigating data-related risks (24%); 21% (including 28% in APAC) cite change management for data initiatives.

Data Leaders Top Responsibilities

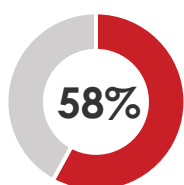


The State of Data Management

Data leaders are investing heavily in data management to make the most of generative AI, as well as their data strategy.

Top data management capabilities being invested in to support their data strategy priorities include data privacy & protection (45%), data quality & observability (41%), and data integration & engineering (37%).

And even when these investments are not directly part of an AI strategy, they emerge as part of organizations' emphasis on this technology: among those predicting increased data investments in 2024, data readiness for AI is a primary driver for more than 2 in 5 (41%).

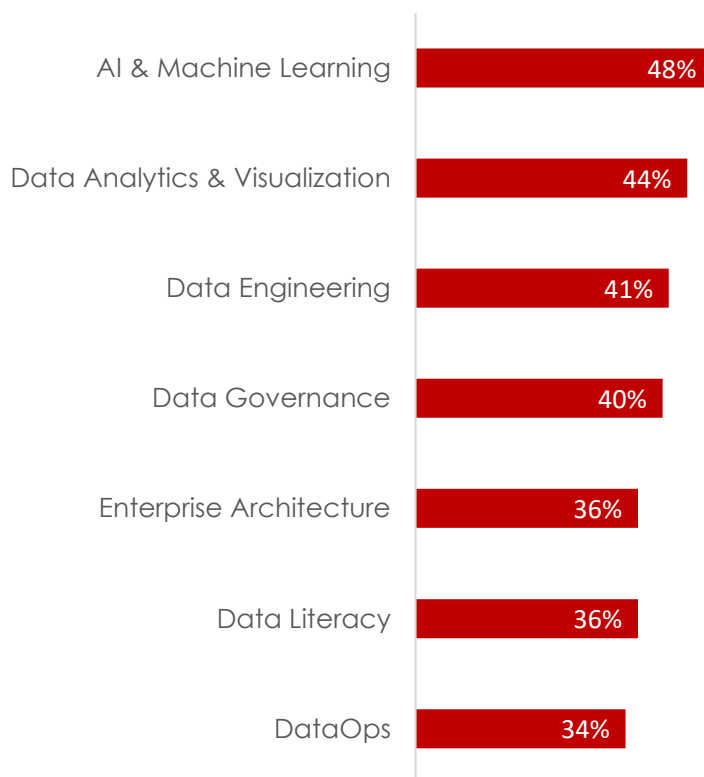


58% of those who predict data management investment will need five or more data management tools to support their priorities

But data readiness isn't the only driver: it's outranked by other considerations including improving data governance (45%), improving data privacy and security (45%), improving data literacy (43%), and increasing data demands in the organization (41%). All these competing priorities can lead to more tools than data leaders can manage: **58% of those who predict data management investment will need five or more data management tools to support their priorities.** Moreover, while 51% of data leaders say a majority of their data management tools are available as cloud-hosted services, nearly as many (49%) admit half or fewer offer that capability—pointing not only to a bloat in the number of tools used, but a lack of progress in their functionality.

It's possible that data leaders already have a solution to their AI challenges as it relates to staffing: **half (48%) would consider upskilling or reskilling their staff on AI and machine learning.** Indeed, data leaders are keen on making the most of their staff's ability to learn and reskill, with other areas of interest including data analytics & visualization (44%), data engineering (41%), and data governance (40%); nearly as many would consider upskilling or reskilling their staff in enterprise architecture (36%) and data literacy (36%), as well as data ops (34%). Perhaps most tellingly, not one data leader said they had no plans for upskilling or reskilling initiatives at their organization.

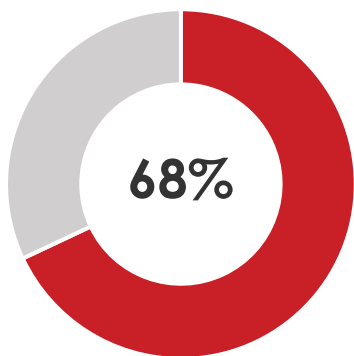
Top Areas for Reskilling or Upskilling



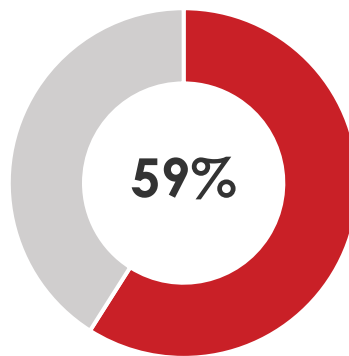


Spotlight: Who's Footing the Bill

Data investments come from a variety of sources, but centralized IT is bearing the brunt of it, with more than two in three data leaders (68%) identifying centralized IT as investing more than 20% of their data management budget; only data management organizations come close (59%), with other departments more likely to invest 20% or less.



68% of data leaders identified centralized IT as investing more than 20% of their data management budget



59% of data leaders identified data management organizations as investing more than 20% of their data management budget

Conclusion

With AI and data management both high priorities for data leaders' 2024 strategies and beyond, it's crucial these two go hand in hand: realizing value from AI means nothing without data management, and AI can itself be a powerful way to achieve data management goals. As data leaders consider both roadblocks as well as the tech- and data-related challenges, investments in data management can operate in tandem with AI to achieve their data management goals.

It will not be easy: with 58% already managing 5+ tools just to wrangle the 1,000+ data sources 41% are utilizing—and as data quality and the volume of data consumers exacerbate the strain placed on data leaders—the need for a single consolidated solution to manage all this data becomes abundantly clear. Relying on existing staff to upskill or reskill to manage AI, as 48% of data leaders would consider, can allow them to make strides in achieving their AI and data goals—but that won't be enough without providing these employees with the proper tools.

With AI and data management, data leaders can recognize that it is not one driving the other, but rather that the two go hand in hand - and making the most of both means transformative change for these technologies, leaders' strategies, and the future of their organizations.

Methodological Notes

The Informatica Survey was conducted by Wakefield Research (www.wakefieldresearch.com) among 600 Data Leaders (defined as CDOs, CDAOs, and CAOs) from companies with \$500M+ in revenue, between October 5th and October 18th, 2023, using an email invitation and an online survey. Quotas were set for 200 U.S., 200 UK/EU (UK, France, Germany), and 200 APAC (Japan, Korea, China, Singapore, Australia, Malaysia, India).

Results of any sample are subject to sampling variation. The magnitude of the variation is measurable and is affected by the number of interviews and the level of the percentages expressing the results. For the interviews conducted in this particular study, the chances are 95 in 100 that a survey result does not vary, plus or minus, by more than 6.9 percentage points in the U.S., UK/EU, and APAC from the result that would be obtained if interviews had been conducted with all persons in the universe represented by the sample.



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