



State of AI in the Consumer Industry

The untapped edge

March 2026

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Overview

Organizations today stand at the untapped edge of AI's potential. Ongoing developments in agentic, physical, and sovereign AI present new challenges and opportunities. Momentum is building, yet the greatest gains still lie ahead as consumer organizations translate early progress into scalable impact. As AI expands beyond the digital core, success will ultimately hinge on a company's ability to move from ambition to activation—turning experiments and potential into real-world business value at scale.

Consumer businesses are pursuing AI against a backdrop of persistent margin pressures, volatile demand, and rapidly shifting consumer expectations. Companies are balancing near-term imperatives—such as improving forecasting accuracy, optimizing pricing and promotions, and personalizing customer engagement—with longer-term bets on automation, intelligent supply chains, and AI-enabled product and service innovation.¹

Deloitte's latest *State of AI in the Enterprise* survey captured insights from more than 950 business and IT leaders in consumer organizations around the world with direct involvement in their companies' AI initiatives. This report explores the survey insights in detail, sharing critical actions for leaders in the consumer industry to consider as they continue on their journey with AI.



Overview

Key findings

AI is moving from the pilot and experimentation phase to enterprise scaling as worker access to AI expands.

Surveyed consumer companies have doubled worker access to AI in just one year—growing from fewer than 30% to around 60% of workers now equipped with sanctioned AI tools. While only 23% of respondents said their organization has moved 40% or more of their AI experiments into production to date, 52% expect to reach that level in the next three to six months.

AI transformation reveals productivity for most, business reimagination for a few.

AI is already boosting productivity and efficiency; just a subset are using it to rewrite the business. Today, 35% of consumer companies are starting to use AI to deeply transform their businesses, 28% are redesigning key processes around AI, and the remaining 37% are only using AI at a surface level with little or no change to underlying business processes. While each are capturing productivity and efficiency gains, just the first group are truly reimaging their businesses rather than optimizing what already exists.

Companies are focused on building AI fluency instead of redesigning work around AI.

Despite high expectations for automation, 82% of consumer companies have not redesigned jobs or the nature of work itself around AI capabilities. In line with other industries, consumer organizations cite insufficient worker skills as the biggest barrier to integrating AI, yet fewer than half are making significant adjustments to their talent strategies. Most are focused on educating employees, but far fewer are re-architecting roles, workflows, and career paths.

With sovereign AI taking hold, where technology is built matters as much as what it can do.

Sovereign AI is about more than technology ownership. It's about strategic independence. More than 3 in 4 consumer companies (78%) say the location of AI development is a key factor when choosing new technologies, signaling that geographic sovereignty is now as important as innovation. These results align with a broader, cross-industry shift toward recognizing sovereignty as a key part of decision-making.

AI agents are scaling faster than the guardrails.

Autonomous AI agents are racing into the enterprise, but oversight is lagging. Nearly 3 in 4 (73%) consumer companies plan to deploy agentic AI within two years. Yet, 1 in 5 (20%) report having a mature model for governance of autonomous agents, raising the specter of unintended risks. Overall, the current level of at least moderate agentic AI adoption in the consumer industry (24%) aligns with the broader pattern across industries and is near the cross-industry average (23%).

Physical AI is already embedded in operations—and its footprint is growing fast.

Physical AI is rapidly becoming integral to operations worldwide, with 65% of consumer companies already using it to some extent and adoption projected to hit 87% within two years—one of the highest levels of physical adoption among industries. This may reflect the industry's focus on automation and robotics, setting the pace for the next wave of industrial automation.

73%

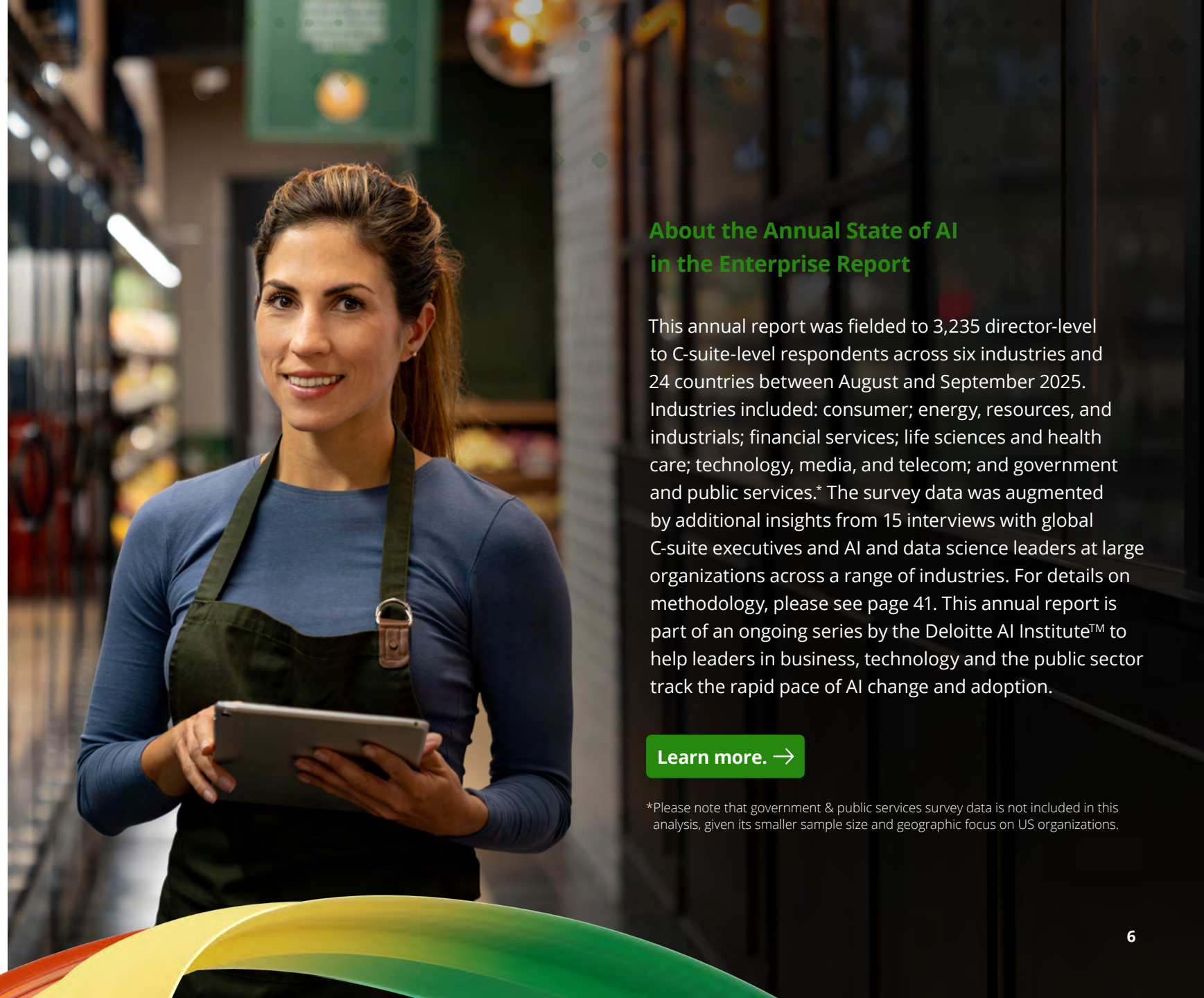
Nearly 3 in 4 consumer companies plan to deploy agentic AI within two years.

Overview

Leaders feel more strategically ready for AI than operationally ready in infrastructure and talent.

Despite the rapid evolution of AI beyond generative AI (GenAI) to agentic and physical AI, 43% of consumer companies believe their strategy is highly prepared for AI adoption and 27% say the same about risk and governance, both rising since last year. Perceptions of preparedness shifted down slightly for technical infrastructure and data management, revealing the persistent challenge of modernizing systems and skills at the speed of innovation.

43% of consumer companies believe their strategy is highly prepared for AI adoption.



About the Annual State of AI in the Enterprise Report

This annual report was fielded to 3,235 director-level to C-suite-level respondents across six industries and 24 countries between August and September 2025. Industries included: consumer; energy, resources, and industrials; financial services; life sciences and health care; technology, media, and telecom; and government and public services.* The survey data was augmented by additional insights from 15 interviews with global C-suite executives and AI and data science leaders at large organizations across a range of industries. For details on methodology, please see page 41. This annual report is part of an ongoing series by the Deloitte AI Institute™ to help leaders in business, technology and the public sector track the rapid pace of AI change and adoption.

[Learn more. →](#)

*Please note that government & public services survey data is not included in this analysis, given its smaller sample size and geographic focus on US organizations.

Key findings

AI is moving from the pilot and experimentation phase to enterprise scaling as worker access to AI expands

According to our latest survey, workforce access to AI in the consumer industry has doubled in just one year—growing from under 30% to under 60% of workers with sanctioned access to AI tools. Yet, among those workers with AI access, only 25% use it in their daily workflow

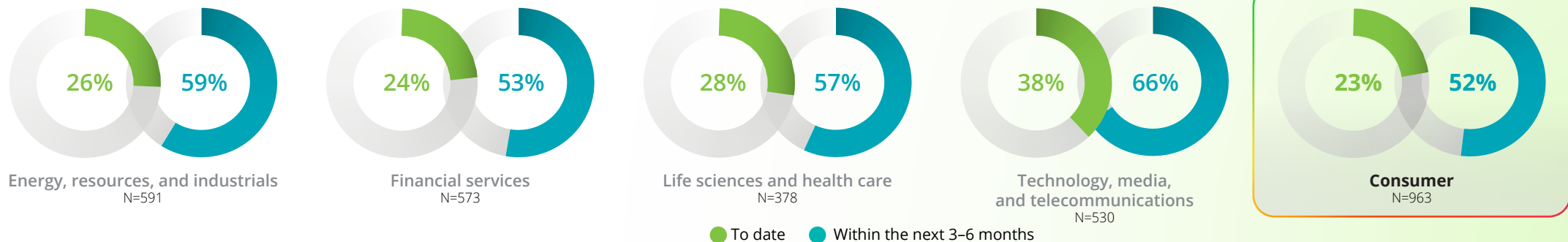
more than 60% of the time. This suggests that while access is widening, enterprise AI remains underutilized, and its productivity and innovation potential are still largely untapped.

The scale acceleration is beginning

Moving from pilot to production is arguably the most important step in capturing AI value—yet this is where many companies stall. While enterprises are experimenting with AI at an accelerating pace, many struggle to scale these experiments into solutions that deliver measurable business impact.

Today, 23% of consumer industry respondents said their organization has moved 40% or more of their AI experiments into production to date. However, 52% expect to reach that level in the next three to six months, demonstrating the pathway to value is clear and achievable. These early scalers highlight an accelerated shift from pilots to enterprise-scale. The pace of progress for consumer companies aligns closely with the financial services and energy, resources and industrials industries (figure 1).

Figure 1: Organizations deploying 40%+ of AI experiments by industry (percent)



Question: In your estimation, what percentage of your AI experiments (e.g., pilots, test cases, etc.) have been deployed to date into your organization (moved into production)?

Key findings

The proof-of-concept trap

Why do so many pilots fail to reach production? The answer lies in a fundamental mismatch between pilot and production requirements. A pilot typically can run with a small team in a few months using cleansed data in an isolated environment. However, production deployment typically requires infrastructure investment, integration with existing systems, security reviews, compliance checks, monitoring systems, and ongoing maintenance—each of which demand significantly more resources and coordination.

In the consumer industry, this gap is often magnified by the need to integrate AI into high-volume, customer-facing processes such as pricing, promotions, merchandising, marketing personalization, and demand forecasting. These

use cases must operate reliably across channels, brands, and geographies, often in near real time, and tolerate sharp demand swings and seasonal volatility.

Production often exposes realities that pilots can hide. Pilots that work in a single market, banner, or channel can break down when exposed to the scale, complexity, and speed required in live consumer environments. Models that achieve high accuracy in testing may prove inadequate when handling edge cases at scale. Use cases estimated to take three months can stretch to 18 months when integration complexities emerge. Failures that were learning opportunities in pilots become business risks in production.



Key findings

Organizations that experiment with AI often see positive results in controlled conditions but cannot consistently predict which use cases will yield the highest return on investment. This lack of clear value realization creates a vicious cycle where companies continue funding new pilots—which are relatively low cost and lower risk—rather than facing the harder work of scaling up existing successes.

The challenge of moving beyond isolated pilots to real enterprise impact is echoed by the people leading AI efforts on the ground across industries. According to one AI leader: “If there is no coherent AI strategy in organizations, you are likely to see pilot fatigue. You’re chasing the next shiny object, pressured to do something with AI without a real plan. I’ve seen many instances where people embark on pilots, but when asked how they’ll scale up if successful, they often don’t have an answer. Without a clear roadmap, executing a hundred pilots just leads to poor results and failed value creation.”



“If there is no coherent AI strategy in organizations, you are likely to see pilot fatigue.”

Key findings

AI transformation reveals productivity for most, business reimagination for a few

AI’s real-world business impact in the consumer industry is rising fast, with 82% of organizations increasing their AI investments and 75% of leaders expressing greater confidence in the technology. While 17% of leaders report that AI is having a transformative impact on their companies, many organizations are only at the edge of large-scale AI-driven transformation.

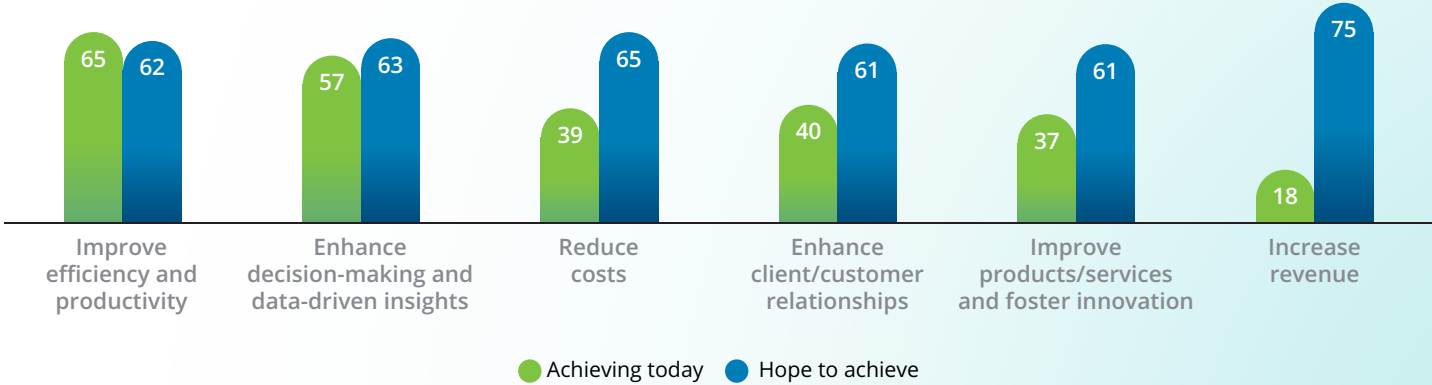
Beyond productivity and efficiency

AI is already delivering widespread gains in efficiency and productivity for consumer businesses; however, other types of benefits are taking longer to achieve. In particular, revenue growth largely remains an aspiration, with 75% of

consumer organizations hoping to grow revenue through their AI initiatives in the future compared to just 18% that are already doing so (figure 2). Consumer companies closely match industry averages in both the level of benefits achieved and their future aspirations, especially in the areas of productivity, innovation, revenue, and customer experience.

These numbers suggest AI is on the verge of breaking out and delivering a wide range of benefits that go far beyond efficiency and productivity improvements. Ultimately, however, success with AI isn’t just about boosting efficiency or even growing revenue. It’s about achieving strategic differentiation and a lasting competitive edge in the marketplace.

Figure 2: AI benefits achieving today vs. hope to achieve in the consumer industry (percent)



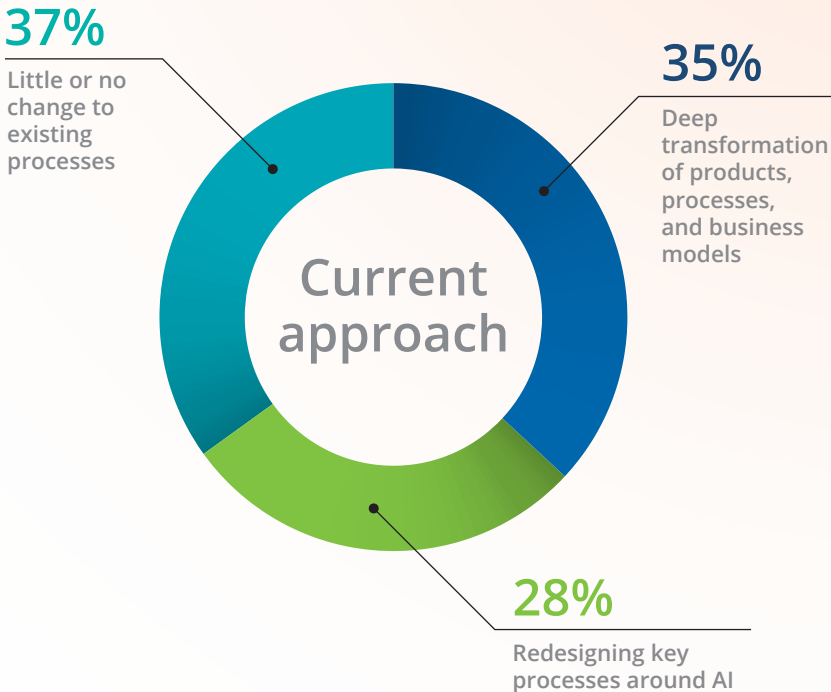
Question: With regards to benefits from your AI efforts: Which benefits are you achieving today? Which benefits do you hope to achieve?
N=963

The consumer industry's approach to AI transformation is broadly in line with other industries.

Organizations are redefining how they work, but not all are diving to the same depth

Among the surveyed companies in the consumer industry, over one-third (35%) are already starting to use AI to *deeply transform* their businesses—creating new products and services, reinventing core processes, or even fundamentally changing their business models. Another 28% are *redesigning key processes* around AI but keeping their business models intact. And 37% are using AI at a more surface level, with little or no change to existing processes (figure 3). While each are capturing productivity and efficiency gains, only the first group are truly reimagining their businesses rather than optimizing what already exists.

Figure 3: Current approach to transformation with AI in the consumer industry



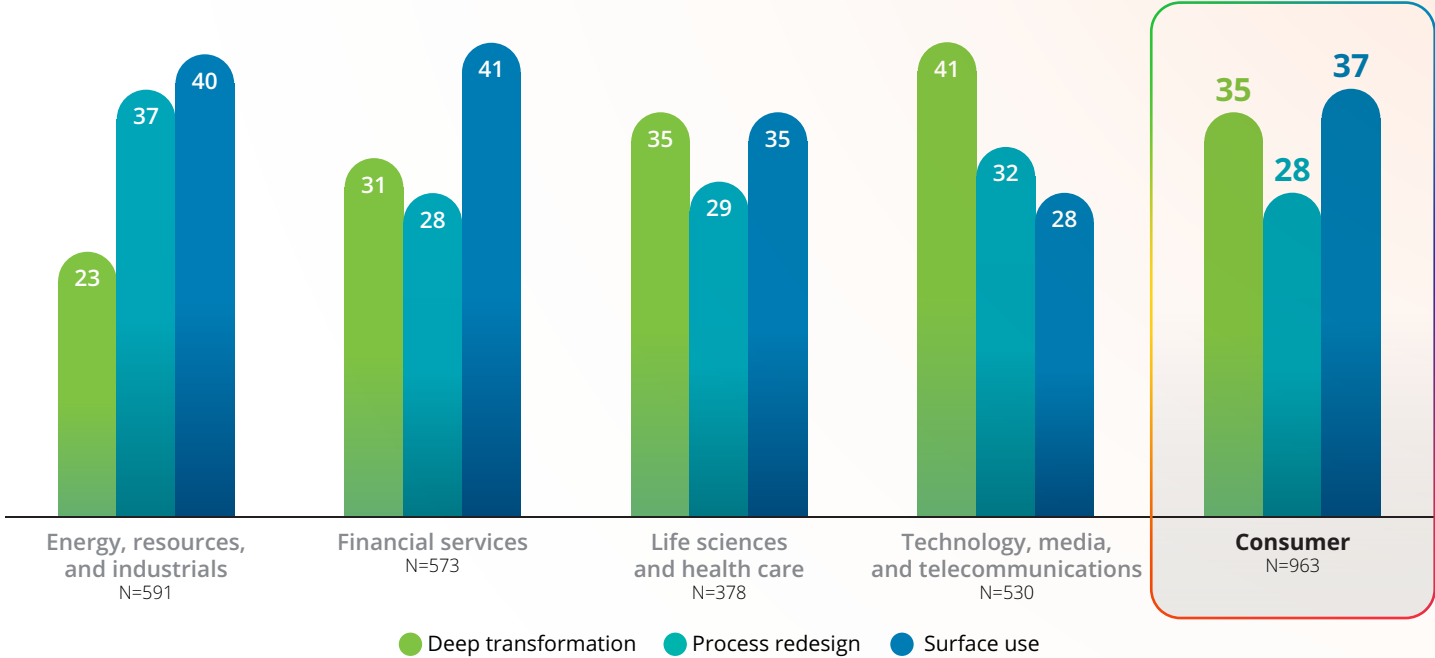
Question: Which best describes your organization's current approach to process transformation during AI implementation?
N=963

Key findings

The consumer industry’s approach to AI transformation is broadly in line with other industries. Consumer organizations’ use of AI for deep transformation—creating new offerings or reinventing business models—is ahead of energy, resources, and industrials and financial services but is behind technology, media, and telecommunications (figure 4).

One company we interviewed took a bold, strategic approach to AI transformation by embedding AI into its core offerings and products. “AI is much more than a technology,” said the company’s head of AI and automation. “We wanted to give it to everyone for everyday usage and make it pervasive everywhere, but we also wanted to disrupt the market.” Rather than focusing solely on internal improvements, the organization is reimagining its business by using AI to unlock new value for both itself and its clients, and to create new digital solutions and revenue streams.

Figure 4: Current approach to transformation with AI by industry* (percent)



Question: Which best describes your organization's current approach to process transformation during AI implementation?
* Figures may not sum to 100% due to rounding.

Key findings

Companies are focused on building AI fluency instead of redesigning work around AI

Within a year, more than a third of surveyed consumer companies (37%) expect at least 10% of their jobs to be fully automated. Over the next three years, the vast majority (82%) expect at least 10% of their jobs to be fully automated.

These changes require careful thinking about career pathways. Leaders in the qualitative interviews expressed concerns about potential disruption to professional development pipelines as a result of automation. Entry-level jobs involving data entry, reconciliation, and first-level customer support at their companies are being prioritized for automation, but these jobs are often the starting point for longer careers. Organizations will likely need to develop alternate pathways for professional advancement, ensuring that employees have expertise that includes foundational processes.



37%

of surveyed consumer companies expect at least 10% of their jobs to be fully automated within a year.

Key findings

Most companies have yet to redesign jobs around AI

Despite high expectations for automation, 82% of consumer companies have not redesigned jobs around AI capabilities.

AI doesn't just augment existing processes. It often requires fundamentally rethinking operating models and how work gets done.² A category manager who has traditionally relied on experience and intuition to set assortments and promotions must now work alongside AI systems that generate pricing, demand, and merchandising recommendations. This raises questions: *When should they override the AI? How do they explain decisions to customers? What happens to their expertise and career trajectory?*

Entry-level and task-aligned roles could be most affected, as automation may replace common, time-consuming tasks. However, as front-line jobs become more automated, supervisor and managerial roles will likely shift toward orchestration of human-AI teams. This is prompting many consumer organizations to explore flatter structures: 54% have considered pod-based or non-hierarchical models since fewer roles require supervision of large teams; however, only 17% have moved to such models to a great or maximum extent.

82%

of surveyed consumer companies have not redesigned jobs around AI capabilities.

Key findings

Talent strategies are falling short

Worker sentiment about AI is mixed but cautiously positive. While 13% of non-technical workers in the consumer industry are highly enthusiastic about AI and are proactively seeking to use it—and 56% are at least open to exploring it—skepticism remains: 19% prefer not to use AI but will do so if required, and 5% actively distrust and avoid it.

According to the leaders surveyed, insufficient worker skills are the biggest barrier to integrating AI into existing workflows. Yet, fewer than half

of consumer companies are making significant adjustments to their talent strategies, with most (54%) simply focusing on educating employees to raise AI fluency (figure 5). While most are focused on educating employees, far fewer are re-architecting roles, workflows, and career paths. The consumer industry’s survey results in this area closely align with those of the overall survey pool.

A director of AI and innovation at a major logistics organization emphasized the importance of

workforce upskilling and supporting business teams as they adapt to new AI technologies: “We are reskilling our people on the business side—investing a lot to ensure they adopt the new AI tools so they can deliver bigger, better, and smarter.” The company’s vision for workforce transformation isn’t just limited to basic upskilling. Rather, the focus is on making sure employees can move from traditional roles into more strategic positions—supported by AI tools. “For example, in the future we would like to see AI enable today’s pricing analysts to become pricing strategists.”

Figure 5: Talent strategy adjustments due to AI in the consumer industry (percent)



Question: How is your organization adjusting its talent strategies because of the adoption of AI tools/capabilities?
N=963

Key findings

With sovereign AI taking hold, *where* technology is built matters as much as *what* it can do

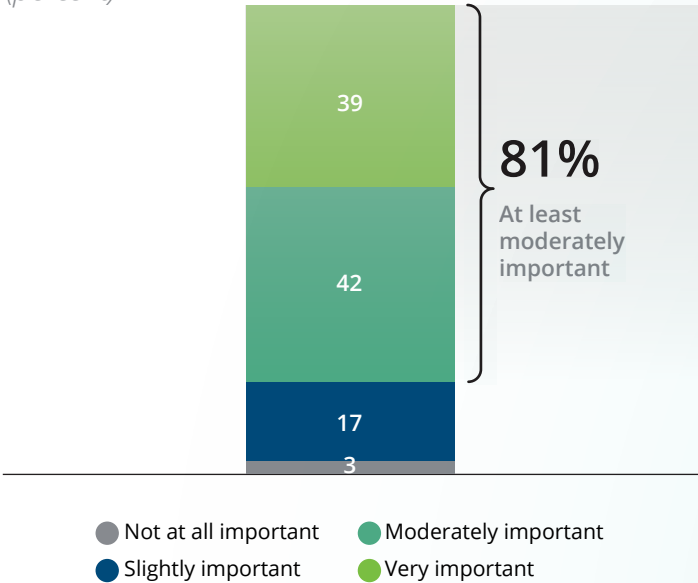
Sovereign AI is when a country—and the companies operating within it—design, train, and deploy AI under their own laws, on infrastructure they control, using locally governed data. The goal is to reduce dependence on foreign vendors for critical AI capabilities.

A new boardroom issue

More than 8 in 10 consumer companies (81%) view sovereign AI as at least moderately important to their strategic planning, and nearly 4 in 10 (39%) rate it as very important (figure 6). These findings are consistent with other industries.

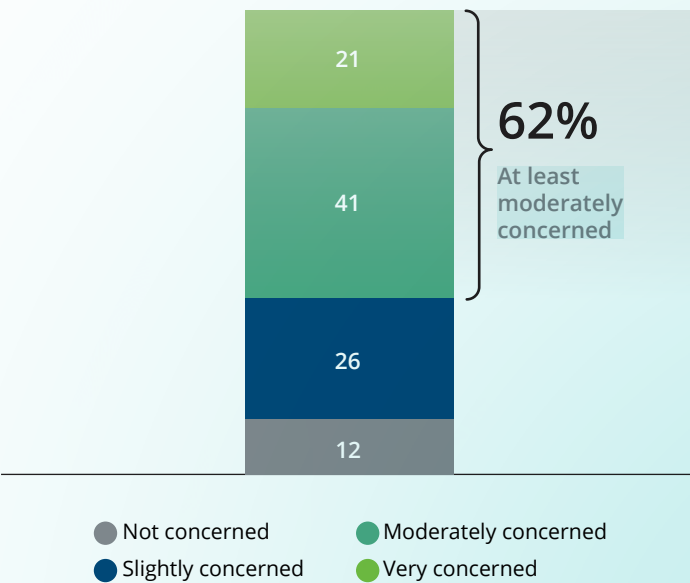
Similarly, 62% of consumer companies express at least moderate concern about reliance on foreign-owned AI technologies and infrastructure, with 21% very concerned (figure 7).

Figure 6: Importance of data residency constraints and compute considerations in strategic planning in the consumer industry* (percent)



Question: How important are data residency constraints and in country/region compute considerations to your organization's strategic planning?
* Figures may not sum to 100% due to rounding.
N=963

Figure 7: Level of concern over reliance on foreign-owned AI in the consumer industry (percent)



Question: To what extent are you concerned about your organization's reliance on foreign-owned AI technologies and compute provision?
N=963

Key findings

Sovereign AI in practice

The rise of sovereign AI has immediate practical implications. Consumer companies working across borders must navigate complex requirements that vary by country, forcing them to build customized solutions for different markets. More than 3 in 4 consumer companies (78%) now factor an AI solution's country of origin into their vendor selection decisions, and more than half (53%) now build their AI stacks primarily with local vendors. This signals that geographic sovereignty is now as important as innovation.

As the former vice president of observability at a major global organization noted, "I've been working with a lot of international companies lately that are adamant we use an in-country infrastructure. We're taking the approach with some of those customers to do a distilled small language model for them that meets the import/export control rules because we build it in their

country. With state-run companies in particular, there is skepticism when you're using something from outside the country."

Sovereign AI pressures vary significantly by geography and industry. Only 11% of companies in the Americas rely on foreign-sourced solutions for the majority of their AI stack, compared to 32% of Europe/Middle East/Africa (EMEA) companies. In the US, state-level deployment considerations are increasingly shaping the landscape.

Ultimately, sovereign AI isn't just about technology ownership. It's about strategic independence. By building on infrastructure within its own control (fueled by its own data, models, talent, and ecosystem) a company has the ability to innovate securely and responsibly.

78%

of surveyed consumer companies now factor an AI solution's country of origin into their vendor selection decisions.

Key findings

AI agents are scaling faster than the guardrails

After years of non-AI chatbots that answered basic questions, companies are now deploying sophisticated AI agents that can set goals, reason through multi-step tasks, use tools and APIs, and coordinate work with people or other agents. This shift transforms AI from a source of information and insights into a system that could perform in a different capacity.

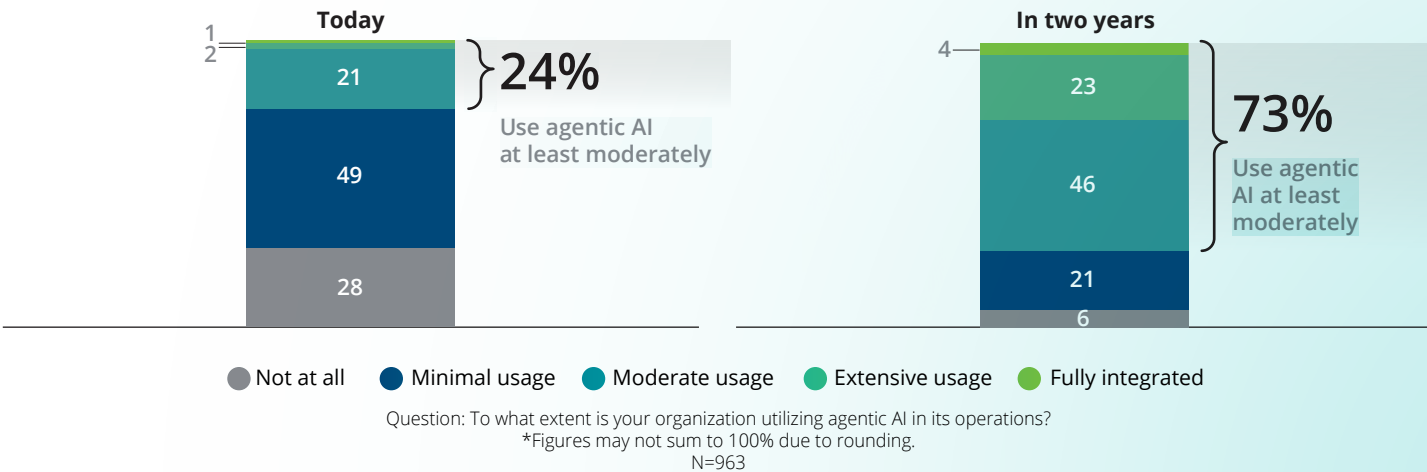
Agentic AI will surge

In last year’s State of AI survey, 23% of respondents in the consumer industry said their organizations were already exploring autonomous agent development to a large or very large extent. Those early exploration efforts are now starting to translate into real-world use and are poised to drive the sharp rise in adoption expected in the near term. Today, 24%

of consumer companies are using agentic AI at least moderately. However, within the next two years agentic AI is expected to become nearly ubiquitous in the industry, with nearly 3 in 4 consumer companies (73%) using it at least moderately, 23% using it extensively, and 4% fully integrating it as a core component of their operations (figure 8).

The current level of at least moderate agentic AI adoption in the consumer industry (24%) is consistent with the broader cross-industry pattern and is close to the overall weighted average of 23%. Over the next two years, adoption rates are expected to grow significantly with shared momentum across industries—aside from technology, media, and telecom, which projects a notably higher rate.

Figure 8: Extent of agentic AI usage in the consumer industry* (percent)



Key findings

AI agents unlock a vast array of use cases

While agentic AI is expected to have the highest impact in customer support, use cases for supply chain management, R&D, knowledge management, and cybersecurity are also seen as having particularly high potential.³ The enterprises we interviewed across industries are already deploying AI agents across multiple functions:



A financial services company is building agentic workflows to automatically capture meeting actions from video conferences, draft communications to remind participants of their next steps, and track follow-through.



A manufacturer is using AI agents to support new product development initiatives, leveraging AI to find the optimal balance between competing objectives such as cost and time-to-market.



An air carrier is using AI agents to help customers complete the most common transactions, such as rebooking a flight or rerouting bags, freeing up time for human agents to address more complex matters.

85% of companies expect to customize agents to fit the unique needs of their business.

Key findings

AI agents don't eliminate the value of humans

Adoption of agentic AI may increase the need for uniquely human strengths, such as adaptivity and judgement, in the near term. "We thought we were going to automate jobs," said the former VP of observability at a major global organization. "The truth is, you're not. You're going to give existing workers force multipliers where they can be more effective. Maybe someday these things will start to become headless where they just feed off a dashboard metric and you can pull back staff to wait on an alert that wakes

somebody up or flashes red on the screen if something really bad happens. But initially it is going to be more work for those people. They're not going to be cooling their heels; they're going to be watching these agents, making sure the volume metrics are right, making sure the qualitative metrics are right, and being there to interact with them if they hit a human-in-the-loop gate and need to interact with a human for accountability purposes."

"We thought we were going to automate jobs. The truth is, you're not. You're going to give existing workers force multipliers where they can be more effective."



Key findings

Managing the risks of agentic AI

One in 5 (20%) consumer companies surveyed report currently having a mature model for governance of autonomous agents. Given the technology's rapid adoption trajectory, this could be a significant limitation. As agentic AI scales from pilots to production deployments, establishing robust governance should be essential to capturing value while managing risk. For consumer companies, the risks are amplified because agents may directly influence pricing, promotions, inventory allocation, supplier ordering, or customer communications—areas where errors can quickly impact brand trust, margins, or regulatory compliance.

Governing agentic AI requires new approaches beyond traditional AI oversight. Unlike conventional AI systems that provide recommendations for humans to act upon, agents take actions directly—making purchases, sending communications, or modifying systems. Organizations need to establish clear boundaries for agent autonomy, defining which decisions agents can make independently versus which require human approval. Real-time monitoring systems that track agent behavior and flag anomalies are essential, as are audit trails that capture the full chain of agent actions to help ensure accountability and enable continuous improvement. In consumer contexts, this might include explicit guardrails around customer-facing actions such as automated discounting, returns authorization, marketing outreach, or dynamic assortment decisions to prevent unintended customer or regulatory consequences.

Companies seeing the most success are taking a measured approach—starting with lower-risk use cases, building governance capabilities, and scaling deliberately. This includes cross-functional governance structures that bring together IT, legal, compliance, and business unit leaders to set policies, monitor performance, and manage escalations. Rushing to deploy agents widely before establishing these governance foundations can expose organizations to significant risks.

20%

of consumer companies report currently having a mature model for governance of autonomous agents.

Key findings

A closer look at governance

AI governance as the catalyst for growth

As AI moves from experimentation to deployment, governance is the difference between scaling successfully and stalling out. In the AI era, governance is more than guardrails—it’s the catalyst for responsible growth.

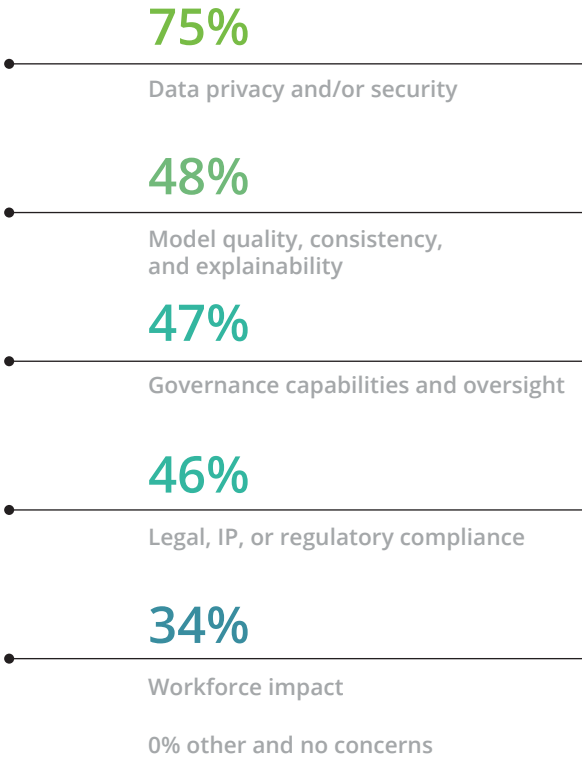
The AI risks that consumer companies are most worried about all relate to governance. Data privacy and security tops the list at 75%, followed by model quality, consistency, and explainability (48%), governance capabilities and oversight (47%), and legal, intellectual property, and regulatory compliance (46%) (figure 9).

Insights gathered during qualitative interviews with AI leaders reveal that governance is a concern. In some organizations, leaders are learning AI models have been deployed

into production without formal oversight or monitoring processes. In particular, one AI leader discovered that there wasn’t a clear inventory of all the AI tools and models currently active since development efforts occurred without systematic tracking or centralized visibility over what is running in production.

Organizations that are serious about capturing AI value should treat governance as a strategic capability, not an afterthought. Those that build strong governance frameworks now will be positioned to scale AI quickly and safely. On the other hand, those that treat governance as a checkbox exercise may find themselves unable to move AI from pilot to production, held back by the very risks they failed to address.

Figure 9: AI risks most concerning in the consumer industry (percent)



Question: Which of the following risks related to AI tools/applications is your organization most concerned about?
N=963

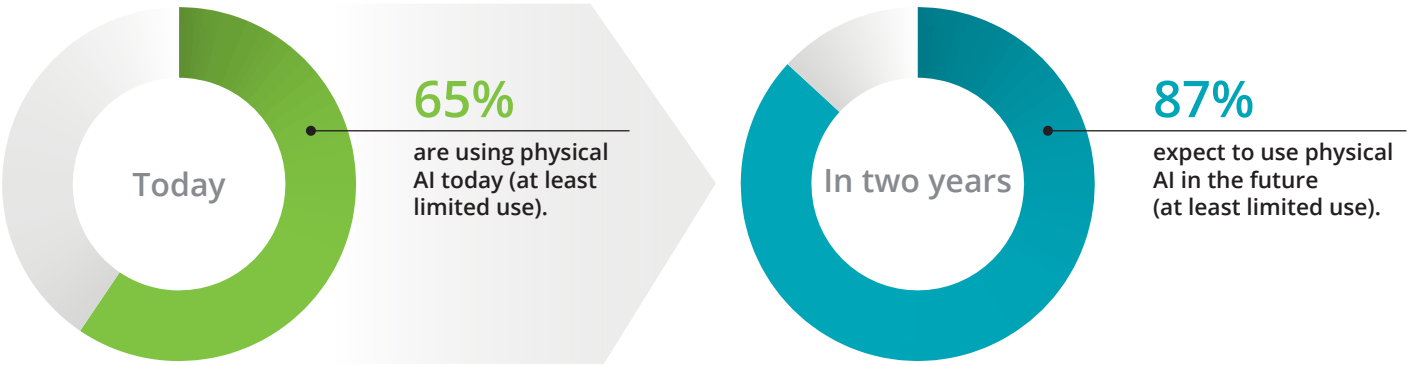
Key findings

Physical AI is already embedded in operations—and its footprint is growing fast

Physical AI is the class of AI systems that perceive the real world, make decisions, and drive physical actions through machines or control systems. It sits at the intersection of AI and machine learning, sensors, controls, and robotics.

Physical AI integration is already expanding, with 65% of companies in the consumer industry reporting at least limited use of physical AI, and among these, 22% are leveraging it to a moderate or greater extent. What’s more, the percentage of consumer companies using physical AI in some capacity is expected to reach 87% within two years—with 19% using physical AI extensively and 4% fully integrating it as a core element of their operations (figure 10).

Figure 10: Extent of physical AI usage in the consumer industry (percent)



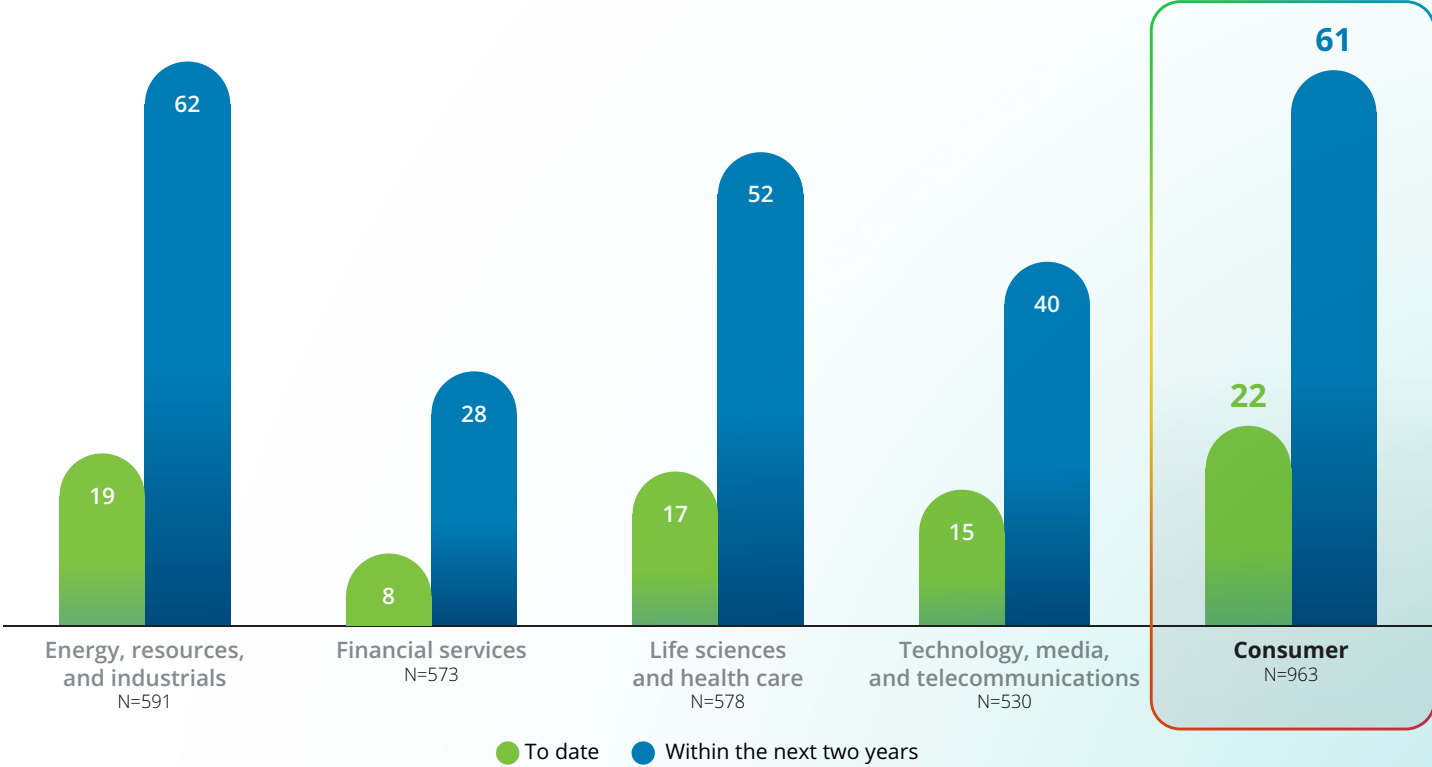
Question: To what extent is your organization currently utilizing physical AI (e.g., robotics, automated machinery) in its operations?
N=963

Key findings

Consumer organizations report one of the highest levels of physical AI adoption—defined as moderate or greater use—among industries and are expected to maintain a leading position in two years (figure 11). This strong adoption may reflect the consumer industry’s focus on automation and robotics to enhance operational efficiency, customer experiences, and supply chain agility.

This is meaningful projected growth. Yet, physical AI’s expected adoption curve in the consumer industry is notably slower than software-based agentic AI, which is expected to jump from 24% to 73% in the same timeframe. The difference reflects the inherent challenges of physical deployment: higher costs and capital requirements, longer development cycles, stricter safety regulations, and the need for specialized hardware and maintenance.

Figure 11: Moderate to greater physical AI usage across industries: Now and in 2 years (percent)



Question: To what extent is your organization currently utilizing physical AI (e.g., robotics, automated machinery) in its operations?

Key findings

Controlled environments are leading the way

Physical AI applications span a wide range of industrial and commercial settings. For example, one company we interviewed is automating package sorting and routing while granting warehouse robots more autonomy to decide where and how to store items to maximize floorspace. Other common use cases include collaborative robots (cobots) on assembly lines, inspection drones with automated response capabilities, robotic picking arms, and autonomous forklifts. Adoption is especially

advanced in manufacturing, logistics, and defense, where robotics, autonomous vehicles, and drones are already reshaping operations. In the consumer industry, these same capabilities are increasingly concentrated in distribution centers, micro-fulfillment hubs, and “dark stores”—locations where retailers are using physical AI to accelerate order fulfillment, reduce labor dependency, and manage SKU proliferation driven by omnichannel demand.



Key findings

A key factor in early adoption is environmental control. Physical AI use cases that take place in controlled domains such as factories and warehouses tend to progress much faster than use cases in open, real-world environments, where the challenges and risks are far more complex and unpredictable. For consumer companies, this explains why physical AI is advancing more rapidly behind the scenes (e.g., in fulfillment, logistics, and back-of-house operations) than in retail stores and other customer-facing environments where variability in human behavior and safety concerns remain significant barriers.

For consumer companies, physical AI is advancing more rapidly behind the scenes than in retail stores.

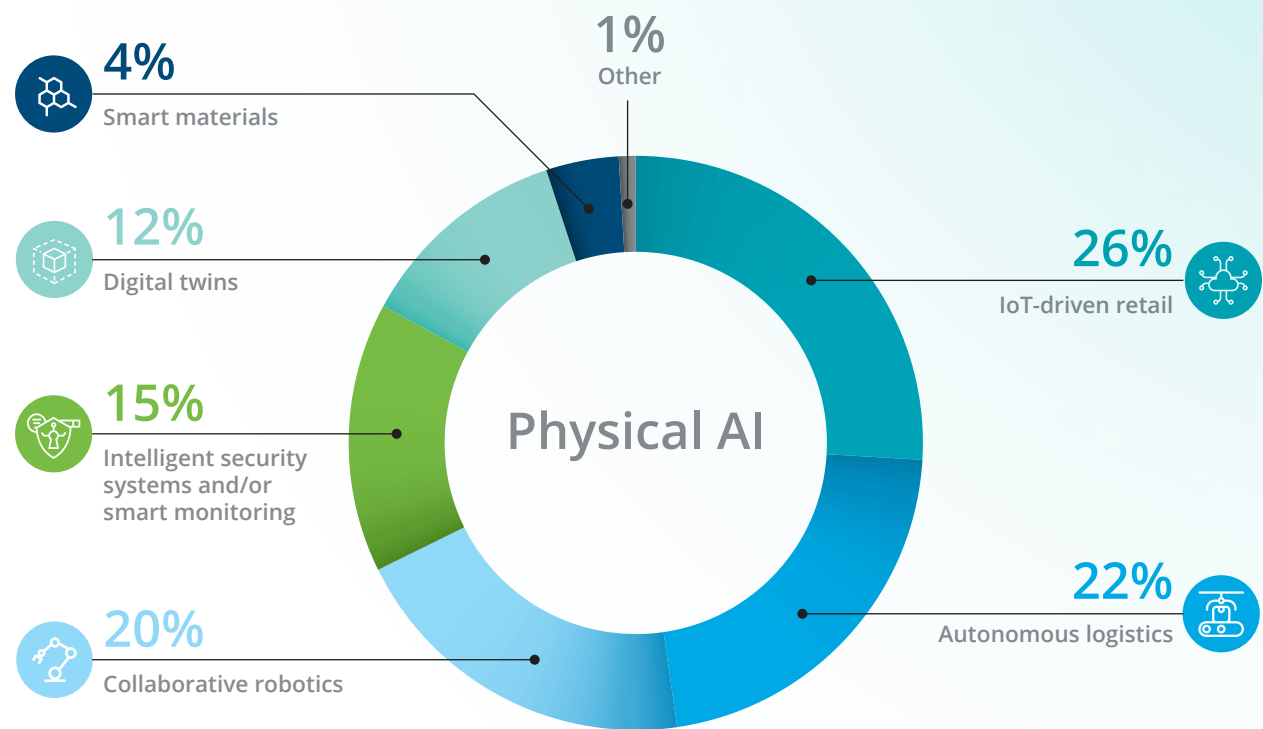
Key findings

Types of physical AI with the greatest expected impact

As physical AI gains broader adoption, certain types are expected to have a bigger long-term impact than others in the consumer industry: IoT-driven retail (26%), autonomous logistics (22%), and collaborative robotics (20%) (figure 12).

These use cases rise to the top because they directly address the consumer industry's most persistent operational pressures: demand volatility, labor constraints, and the need for speed. IoT-driven retail improves real-time visibility into inventory, shelf conditions, and equipment performance, enabling faster replenishment and fewer out-of-stocks across increasingly complex omnichannel networks. Autonomous logistics targets the highest-cost portion of consumer operations—fulfillment and movement of goods—by reducing reliance on manual labor while improving throughput and

Figure 12: Types of physical AI expected to have the greatest impact in the consumer industry (percent)



Question: Which area of physical AI do you believe will have the greatest impact on your industry?
N=963

Key findings

reliability. Collaborative robotics complements this shift by augmenting frontline workers in warehouses and micro-fulfillment environments, allowing companies to scale capacity and productivity without fully redesigning facilities or operating models.

To help ensure public acceptance and trust of these solutions, consumer companies should focus on making them secure, interoperable, and resilient against disruptions and cyberthreats.⁴ Unlike software AI that operates in digital environments, physical AI systems interact with people, equipment, and infrastructure in ways

that can pose safety risks if they malfunction or are compromised. This raises the stakes for testing, certification, and ongoing monitoring.

Consumer companies must also contend with complex regulatory environments that vary by industry and geography. Physical AI systems often require approval from safety regulators, compliance with industry-specific standards, and adherence to liability frameworks that don't always account for autonomous systems. These requirements add time and cost to deployment but are essential for responsible adoption.

Consumer companies must also contend with complex regulatory environments that vary by industry and geography.

Key findings

Accounting for the full cost of physical AI

In our survey, cost was cited most often as a key barrier to physical AI deployment. When evaluating business cases for physical AI, decision makers in consumer organizations should account for total cost of ownership and not just initial equipment costs. The full picture includes facility retrofits to accommodate new equipment, sensors and robots themselves, integration with existing systems and workflows, maintenance and spare parts, and potential downtime during implementation and troubleshooting.

These costs can significantly exceed the initial investment in AI models and software. A warehouse automation project might require hundreds of thousands of dollars in AI development but millions of dollars in physical infrastructure, robotic systems, and facility modifications. Companies that underestimate these costs risk project delays or abandonment partway through implementation.

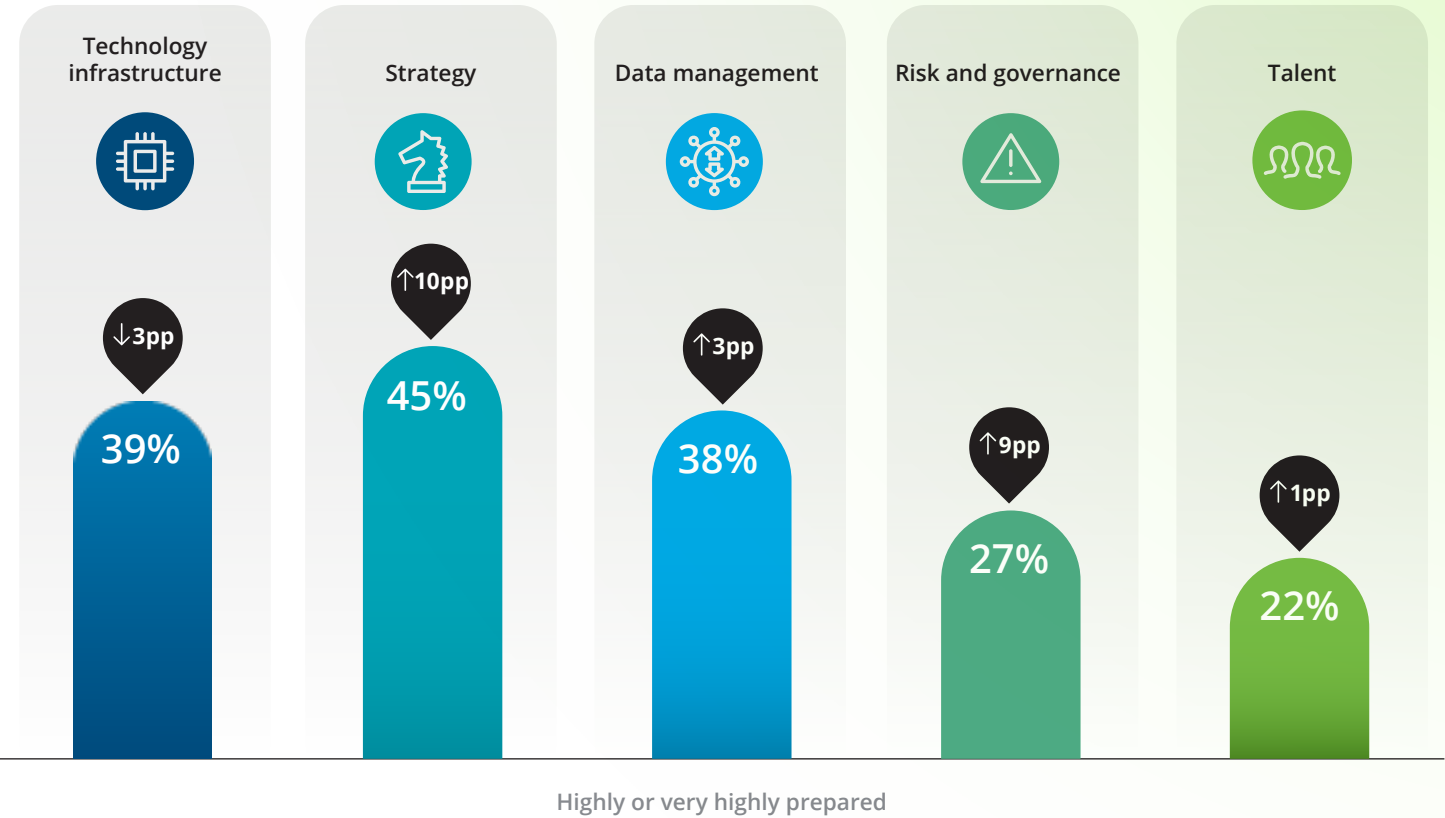
When evaluating business cases for physical AI, decision makers in consumer organizations should account for total cost of ownership and not just initial equipment costs.

Key findings

Leaders feel more strategically ready for AI than operationally ready in infrastructure and talent

Despite the rapid evolution of AI beyond GenAI to agentic and physical AI, 45% of consumer companies believe their strategy is highly prepared for AI adoption and 27% say the same about risk and governance (figure 13). These results align closely with broader cross-industry findings and have both risen since last year's report (+10 and +9 percentage points, respectively). These areas have likely advanced more quickly as they depend primarily on executive decision-making and policy development.

Figure 13: Level of preparedness for AI adoption in the consumer industry (percent)



Question: For each, rate your organization's level of preparedness with respect to broadly adopting AI tools/applications.
N=963

Percentage point change vs last year

Key findings

Meanwhile, perceptions of high preparedness have shifted down compared to last year for technical infrastructure (39%) and grew only 1 percentage point for talent (22%), revealing the persistent challenge of modernizing systems and skills at the speed of innovation. In fact, most consumer industry respondents believe that resolving the key challenges for their organization's priority AI initiatives will take more than a year—far too long in today's fast-moving, hyper-competitive marketplace.

As a head of AI strategy we interviewed explained: “Many organizations prepared for an AI future by building infrastructure and governance for traditional AI models. With LLMs, those efforts were upended. Suddenly, there was a new capability unlike previous AI. Now, traditional AI use cases—training models from scratch, custom interfaces—have diminished. Nearly 80–90% of new use cases are generative AI. So yes, companies are prepared, but for a different future. GenAI needs a new set of capabilities.”

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Tapping into AI's full potential

The research is telling: AI's transformational potential is real but capturing it requires far more than just technology investments. Consumer companies should treat AI as foundational. The most successful won't be those with the most AI projects or the biggest budgets, but those who build AI into the foundation of how they operate, compete, and grow.

Here are six key focus areas to help your business capture AI's untapped edge:



Close the gap between access and activation

Most organizations have deployed AI tools, but far fewer have achieved meaningful usage. The gap between availability and adoption is now the primary barrier to value. Successful companies focus on activation, not just access.

High-performing implementations start with empowered employees who experiment, share early wins, and become internal champions. Top-down directives alone rarely drive meaningful change. Grassroots adoption supported by senior sponsorship creates momentum and helps ensure solutions align with real workflows.

Activation requires early attention to practical constraints: system integration, data permissions, and operational reliability. For organizations applying AI not only to digital processes but also to physical systems—such as robotics, IoT devices, or machinery—early planning for these operational realities is especially critical. Organizations that design for deployment from the outset, rather than treating scale as an afterthought, see far higher adoption. Hands-on, role-specific training and visible executive advocacy materially shift employee behavior. Leaders that treat pilots as stepping stones to production, not isolated experiments, are likely to achieve faster and more durable impact.



Unlock human advantage by redesigning work around AI

AI is reshaping work at every level. While most organizations currently focus on personal productivity, leaders are rebuilding processes, roles, and career paths around expanded AI capabilities.

The most successful organizations reimagine jobs to seamlessly combine human strengths and AI capabilities, ensuring both aspects are used to their fullest potential. New roles—AI operations managers, human-AI interaction specialists, quality stewards, and others—signal a deeper shift: AI is now a structural component of how work is organized. Advanced organizations streamline workflows that AI can execute end-to-end, while humans focus on judgment, exception handling, and strategic oversight. The goal isn't

to replace humans or merely assist them, but to create complementary working relationships between humans and AI, in which the combined output exceeds what either could achieve alone.

Organizational structures are beginning to flatten as AI absorbs routine execution tasks. Some companies are merging technology and people-leadership functions to ensure that systems and workforce design evolve together. The pace varies by industry, but the direction is consistent: roles, skills, and career paths should be rebuilt, not simply adjusted. Organizations should take an AI-native approach and redesign work holistically rather than layering AI onto legacy processes.



Build governance before you scale and make it everyone's role

Governance is no longer a compliance exercise; it's the mechanism that enables rapid, confident scaling. Enterprises where senior leadership actively shapes AI governance achieve significantly greater business value than those delegating the work to technical teams alone. True governance makes oversight everyone's role, embedding it into performance rubrics so that as AI handles more tasks, humans take on active oversight. This shared responsibility empowers employees to help identify challenges and guide safe, trusted AI use.

Effective governance integrates with existing risk and oversight structures, not parallel "shadow" functions. It focuses on identifying high-risk applications, enforcing responsible design practices, and ensuring independent validation where appropriate. Leading organizations proactively monitor evolving legal requirements and build systems that can demonstrate safety, fairness, and compliance.

Autonomous systems heighten needs for data and cybersecurity governance.⁵ Organizations need to define where humans should remain in control, how automated decisions and data use are audited, and which records of system behavior should be retained. Cross-functional teams—technology, legal, compliance, and business—establish governance frameworks early so that scale does not outpace control. At the same time, governance should be calibrated to balance risk management with innovation, ensuring that oversight enables experimentation rather than constraining it. The objective is not to add bureaucracy but to create clear, adaptive guardrails that allow responsible progress at speed.



Address sovereign AI requirements with focus and discipline

As national governments accelerate efforts to establish sovereign AI capabilities, enterprises will likely navigate increasingly complex expectations around data control, model transparency, compliance, and localization. Sovereign AI is no longer limited to the public sector; it is reshaping requirements for every organization handling sensitive data or operating across jurisdictions. At the same time, compute strategy becomes a core component, requiring careful evaluation of both data residency and processing locations (e.g., in cloud, on-prem, hybrid, or edge environments) to remain aligned with evolving regulations and performance needs.

Leading companies take a focused approach: assessing which data and workloads must remain within national or regional boundaries, determining where local model hosting is mandatory, and clarifying how transparency, auditability, and documentation standards differ across markets. They establish clear policies for data residency, model retraining, and cross-border flows, supported by infrastructure capable of meeting multiple regulatory regimes simultaneously.

Enterprises that ignore sovereign AI constraints will face escalating operational disruption, higher compliance risk, and restricted access to key markets. Those that proactively engage build strategic advantage: They can reduce regulatory uncertainty, enhance customer trust, and position themselves as preferred partners in industries where sovereignty concerns dominate. Sovereign AI readiness is now a core element of enterprise resilience and global competitiveness, not a specialized compliance task.

Tapping into AI's full potential



Build a “living” technology and data infrastructure for tomorrow’s AI

Legacy data and infrastructure architectures cannot power real-time, autonomous AI. As AI capabilities extend beyond software into devices, machinery, and edge locations, organizations need to evaluate if their technology foundations are ready to support potential physical AI deployments. Modernization should create a living AI backbone: an organization-wide, real-time system that adapts dynamically to business and regulatory change, elevating infrastructure from IT initiative to strategic capability.

Leaders are enabling modular, cloud-native platforms that securely connect, govern, and integrate all data types, fostering rapid experimentation and seamless scaling. They break down silos with domain-owned data products and embed privacy, sovereignty, and

security-by-design, while enforcing enterprise standards for quality, interoperability, and lineage. This balanced approach delivers decentralized innovation supported by centralized control.

A unified, trusted data strategy is indispensable. Poor or fragmented data compounds risk and undermines every AI initiative. Forward-thinking organizations converge operational, experiential, and external data flows and invest in evolving platforms that anticipate needs of emerging AI.⁶ Infrastructure determines enterprise velocity; those that modernize early will likely accelerate while others remain constrained.





Pursue strategic reinvention, not incremental efficiency

A widening performance divide separates companies treating AI as core to strategy from those viewing it as a cost-saving tool. Leading organizations invest heavily in using AI to reshape operations and create new revenue streams, resisting the pressure to chase every trending technology in favor of initiatives that genuinely advance strategic goals and deliver real value.

These organizations pursue growth across multiple horizons: strengthening current operations, expanding into adjacent markets, and building entirely new businesses enabled by AI. They rethink their organizations from the ground up and imagine how to build without legacy constraints, rather than digitizing old processes. This extends to reimagining business models and adapting to emerging trends like sovereign AI.

This intentional reinvention is one of the strongest predictors of achieving outsized returns.

Autonomous AI systems are accelerating this shift. In knowledge-intensive industries, they can absorb substantial routine work, enabling people to focus on higher-order activities. High performers are reorganizing around systems that perceive context, make decisions, and act independently, balancing bold transformation with operational continuity. They move at a pace suited to their organization's readiness, making thoughtful trade-offs and fostering informed decision-making grounded in evidence rather than hype. The strategic opportunity is discovering new sources of value that competitors cannot easily replicate.

With developments in agentic, physical, and sovereign AI rapidly expanding the boundaries of what's possible, consumer organizations today are at the edge of tapping into AI's full potential. Whether it's figuring out how to capitalize on the latest cutting-edge innovations, making the leap from pilots to large-scale deployment, or using AI to create an enduring competitive advantage, enterprises around the world are on the edge of transforming themselves with AI. The challenge now is activation: bridging the gap from tool access to meaningful adoption, moving beyond experimentation to operationalizing AI at scale, embedding AI into core business processes—transforming technology potential into enterprise value.

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About the Deloitte AI Institute

The Deloitte AI Institute™ helps organizations connect all the different dimensions of the robust, highly dynamic, and rapidly evolving Artificial Intelligence ecosystem. The AI Institute leads conversations on applied AI innovation across industries, with cutting-edge insights, to promote human-machine collaboration in the “Age of With™.”

The Deloitte AI Institute aims to promote the dialogue and development of AI, stimulate innovation, and examine challenges to AI implementation and ways to address them. The AI Institute collaborates with an ecosystem composed of academic research groups, start-ups, entrepreneurs, innovators, mature AI product leaders, and AI visionaries to explore key areas of artificial intelligence including risks, policies, ethics, the future of work and talent, and applied AI use cases. Combined with Deloitte’s deep knowledge and experience in artificial intelligence applications, the Institute helps make sense of this complex ecosystem, and as a result, delivers impactful perspectives to help organizations succeed by making informed AI decisions.

No matter what stage of the AI journey you are in: whether you are a board member or a C-Suite leader driving strategy for your organization—or a hands-on data scientist bringing an AI strategy to life—the Deloitte AI Institute can help you learn more about how enterprises across the world are leveraging AI for a competitive advantage. Visit us at the Deloitte AI Institute for a full body of our work, subscribe to our podcasts and newsletter, and join us at our meet-ups and live events.

Let’s explore the future of AI together. →

Methodology

To obtain a global view of how AI is being adopted by organizations on the leading edge of AI, Deloitte surveyed 3,235 leaders between August and September 2025. Respondents were senior leaders in their organizations and included board and C-suite members, and those at the president, vice president, and director levels. The survey sample was split equally between IT and line-of-business leaders. Twenty-four countries were represented: United States (n=1,200), Canada (n=175), Brazil (n=115), Mexico (n=100), United Kingdom (n=220), Germany (n=170), France (n=150), Netherlands (n=50), Italy (n=75), Spain (n=100), Austria (n=50), Portugal (n=15), Poland (n=40), Czechia (n=30), Saudi Arabia (n=70), United Arab Emirates (n=130), Egypt (n=45), Kuwait (n=10), Qatar (n=10), Oman (n=5), Japan (n=100), India (n=200), Singapore (n=75), Australia (n=100). All participating organizations have one or more working implementations of AI being used daily. Plus, they have pilots in place to explore AI or have one or more working implementations of being used daily. Respondents were required to meet one of the following criteria with respect to their organization's AI and data science strategy, investments, implementation approach, and value measurement: influence decision-making, are part of a team that makes decisions, are the final decision-maker, or manage or oversee AI technology implementations. All statistics noted in this report and its graphics are derived from Deloitte's annual survey, conducted between August and September 2025; *The State of AI in the Enterprise* report series. N (Total leader survey responses) = 3,235. The survey data was supplemented with case studies and qualitative findings derived from 15 interviews with executives and AI and data science leaders at large organizations across a range of industries and countries.

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