



Now decides next: Generating a new future

Deloitte's State of Generative AI in the Enterprise
Quarter four report – German Cut

March 2025

deloitte.com/de/ki-studie



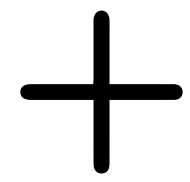
Table of contents

- + Executive Summary 3
- + Foreword 4
- + View from the G-suite 5
- + **Now:** Where we are 6
 - 1** Evolving priorities in the Generative AI landscape 7
 - 2** Organizational challenges and barriers to scale 11
 - 3** Impacts on workforce dynamics 13
 - 4** Future expectations: Agentic AI unfolding 16
- + **Next:** Looking ahead 18
- + Authorship & Acknowledgments 21
- + Methodology 23

About The State of Generative AI in the Enterprise: Wave four survey results

The wave four survey covered in this report was fielded to 2,773 director- to G-suite-level respondents across six industries and 14 countries between July and September 2024. Industries included: consumer; energy, resources and industrials; financial services; life sciences and health care; technology, media and telecom; and government and public services. For details on methodology, please see p. 23.

This quarterly 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 Generative AI change and adoption. The series is based on Deloitte’s State of AI in the Enterprise reports, which have been released annually the past five years.



Introduction

Generating a new future

As organizations continue to navigate the complexities of technological advancement, the integration of Generative AI is emerging as a defining factor in driving innovation and enhancing operational efficiency. In Germany, the momentum toward adopting Generative AI solutions indicates a pivotal shift that promises to reshape the corporate landscape. This report provides an insightful exploration of the trends, applications, and challenges surrounding Generative AI, offering a comprehensive perspective that captures both the ambitions and apprehensions that characterize the current climate.

Evolving priorities in the Generative AI landscape

The survey reveals a profound commitment among German organizations to harness this transformative technology. Their proactive approach, illustrated by robust experimentation and investment in Generative AI initiatives, positions them as pioneers in the field. The alignment of anticipated benefits with organizational preparedness underscores a strategic focus on operational improvements, which is crucial for achieving long-term competitive advantage.

Organizational Challenges and Barriers to Adoption

Despite a notable push towards adoption, many face challenges on an organizational level. The report identifies critical hurdles – ranging from technical talent shortages to cultural resistance and regulatory anxieties – that can inhibit the effective implementation of Generative AI. Understanding these challenges is essential for organizations to formulate comprehensive strategies that facilitate smoother integration and foster a culture of innovation.

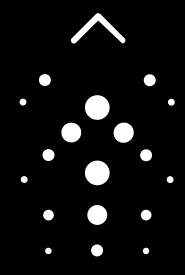
Impact on Workforce Dynamics

As workplace dynamics evolve there is a heightened emphasis on the emerging interactions between Generative AI technologies and employee roles. The high levels of access and engagement with AI tools signify a commitment to enhancing productivity; however, concerns about job security and the effectiveness of reskilling initiatives present a pressing challenge for leadership. This balance of opportunity and apprehension sets the stage for strategic planning that prioritizes both technology and the workforce.

Future Expectations: Agentic AI Unfolding

A cautious optimism emerges as organizations look ahead. While apprehensions regarding value realization and data quality persist, there is a notable eagerness to explore avant-garde solutions such as autonomous agents. This dual sentiment reflects a growing readiness to navigate the intricate dance between innovation and cost management in the dynamic landscape of AI.

As businesses continue to embed Generative AI within their strategies, the insights drawn from this report serve as a guiding compass for decision-makers. Through a thorough understanding of the current state of Generative AI adoption, coupled with robust recommendations, organizations can chart a path toward sustainable growth and enhanced value creation. Embracing the opportunities presented by Generative AI, while addressing the inherent challenges, will be critical for fostering a resilient and competitive future.



Introduction

Foreword

As the landscape of Generative AI continues to evolve, organizations in Germany find themselves in a dual narrative of promise and caution. In some aspects they are at the forefront of this technological transformation and significantly increasing AI investments, navigating both substantial opportunities and notable challenges. This report delves into the dynamics of Generative AI adoption, highlighting key trends, anticipated workforce impacts, and potential barriers faced by businesses today.

The commitment to exploration in German organizations is noteworthy, with a significant proportion of organizations engaging in numerous Generative AI projects, reflecting a strategic focus on leveraging Generative AI as a key business driver. While enhancing efficiency continues to be the primary motivation for many, there is a consequential shift towards practical applications, particularly in IT and cybersecurity, indicating a faster adoption in functions with a strong affinity for new technologies. The pace of adoption in Germany is notable, with many organizations actively seeking to enhance their processes through innovative AI solutions.

The survey findings reveal a complex landscape of challenges, including technical talent shortages, integration complexities, and regulatory compliance issues. Many organizations express apprehension about achieving expected value from their Generative AI investments, necessitating strategic clarity. Moreover, issues related to trust, data quality, and the potential for bias within AI systems contribute to a cautious approach toward broader implementation.

Despite these hurdles, organizations exhibit a cautiously optimistic outlook, with a strong interest in exploring advanced applications such as autonomous agents. This signifies a readiness to innovate while addressing emerging concerns about reliability and data integrity.

The dual narrative of promise and caution illustrates that while opportunities abound, the pathway to effective Generative AI adoption is fraught with potential pitfalls. Companies must reconcile their eagerness to leverage AI technologies with the need for ethical considerations and effective risk mitigation strategies. Emphasizing a holistic approach that integrates both technology adoption and workforce empowerment will be critical.

This report aims to equip senior executives, decision-makers, and technology leaders with critical insights into the current state of Generative AI adoption in Germany. By understanding the trends, barriers, and future expectations surrounding this transformative technology, organizations can harness strategic opportunities, effectively mitigating risks while fostering a culture of innovation. As Generative AI continues to shape the business landscape, a proactive focus on aligning technology with organizational goals will be essential in realizing its full potential for sustainable growth and competitive advantage.

Dr. Björn Bringmann

Peter Fach

Dr. Sarah J. Becker

View from the C-suite

Relative to other respondents, the C-suite leaders (CxOs) in our survey generally demonstrated higher levels of excitement and optimism about their organizations' GenAI implementations. For example, 36% of C-suite survey respondents in Germany reported they feel GenAI will transform their organization within one year, or is already transforming their organization, compared to 25% of non-C-suite respondents. This aligns with the global findings, where 39% of C-suite respondents expect a transformation within one year, vs. 23% of non-C-suite respondents. C-suite executives surveyed are comparatively less worried about barriers such as trust, risk management, governance and regulatory compliance. They also have a rosier view of how quickly their organization is moving, and how quickly the barriers to scaling and value creation will be addressed. Sixty percent of non-C-suite respondents – both in Germany and globally – believe it will take 12 months or more to overcome scaling barriers, compared to only around half of C-Suite respondents, 50% in Germany and 47% on the global average, respectively.

This doesn't necessarily mean CxOs are out of touch with the challenges of adopting and deploying GenAI. It could be they are still playing the primary role of catalyst or cheerleader and are in the process of learning what it really takes to implement and scale GenAI.

What will be important going forward is for CxOs to direct that enthusiasm to removing barriers and enabling scaling. Now that GenAI in the enterprise is moving past its infancy, CxOs should take on new roles, including those of guide, counselor and challenger. Chief executive officers should show top-down support for GenAI, be the champions for governance and risk initiatives, and foster an environment of trust and transparency. Chief information officers, chief technology officers and chief data officers should sharpen their focus on identifying and overcoming the barriers to large-scale GenAI deployment within their domains. Chief financial officers should ensure responsible spending without stifling innovation. And chief human resource officers should promote training, reskilling and other human capital investments.

+

Now: Where we are



Now: Key findings

1 Evolving priorities in the Generative AI landscape

The adoption of Generative AI is reshaping businesses worldwide, with Germany leading in several aspects. This chapter investigates trends in the adoption of Generative AI in German companies, focusing on the desired benefits and organizational readiness across various dimensions, ranging from technology to talent.

Improving efficiency and productivity stands out as the leading incentive for AI adoption in Germany, with 57% of organizations prioritizing this goal, compared to a global average of 54% (figure 1). Despite a decline from 67% last year, the emphasis on this area persists, potentially overshadowing the exploration of other AI capabilities. Notably, German organizations maintain a cautious stance toward AI-driven innovation.

Benefits such as improving existing products and services (34%) as well as uncovering new insights (27%) are on the rise in Germany, now even slightly above the global average.

However, the level at which these benefits are pursued pales in comparison—with a gap of 23 percentage points—to the efficiency gains German organizations aim to achieve (figure 1).

Evolution of benefits

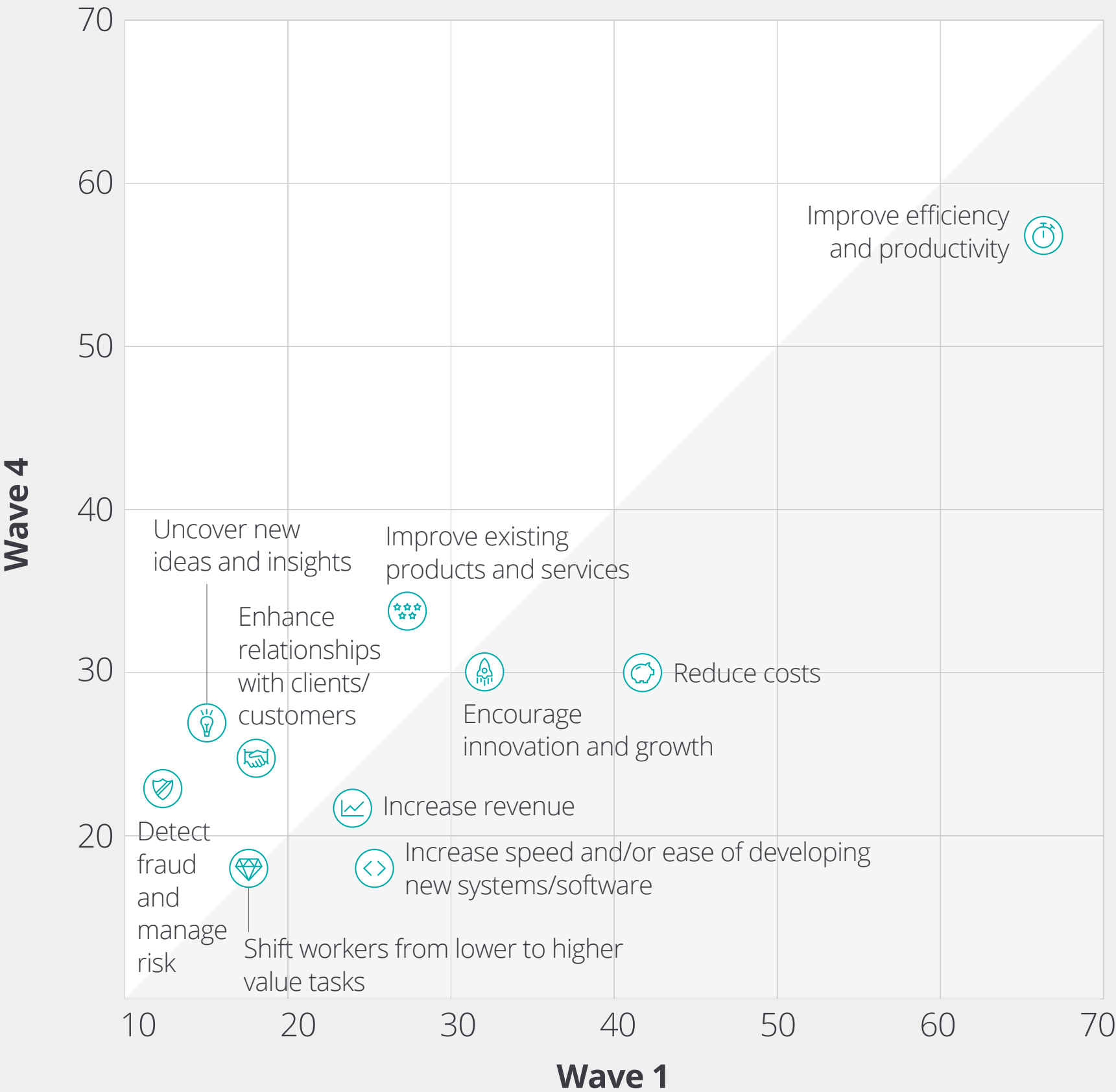


Figure 1

Q: What are the key benefits you hope to achieve through your Generative AI efforts?

Wave 1: (Oct./Dec. 2023): N(Germany) = 150
Wave 4: (July/Sept. 2024): N (Germany) = 150

Now: Key findings

Although innovation and growth are ranked fourth in Germany (30%), just below the global average of 34%, the trend in Germany contrasts with the global shift. While innovation is gaining ground globally, with a 4 percentage point increase, its significance continues to wane in Germany, with a 3 percentage point decline over the past year.

Insights from the survey reveal varying levels of adoption across different business areas. In Germany, IT and cybersecurity lead with 29% of respondents reporting at-scale implementation, followed by strategy and operations at 19%, and marketing, sales, and customer service at 13% (figure 2). Compared to leading countries, Canada tops the list with 42% of respondents reporting at-scale implementation in IT and cybersecurity, while Germany ranks 10th. In strategy and operations, Germany holds third place, following the Netherlands (22%) and Singapore (20%). For marketing and sales, Germany ranks 8th, with Japan leading at 26% of respondents reporting at-scale implementation (figure 2).

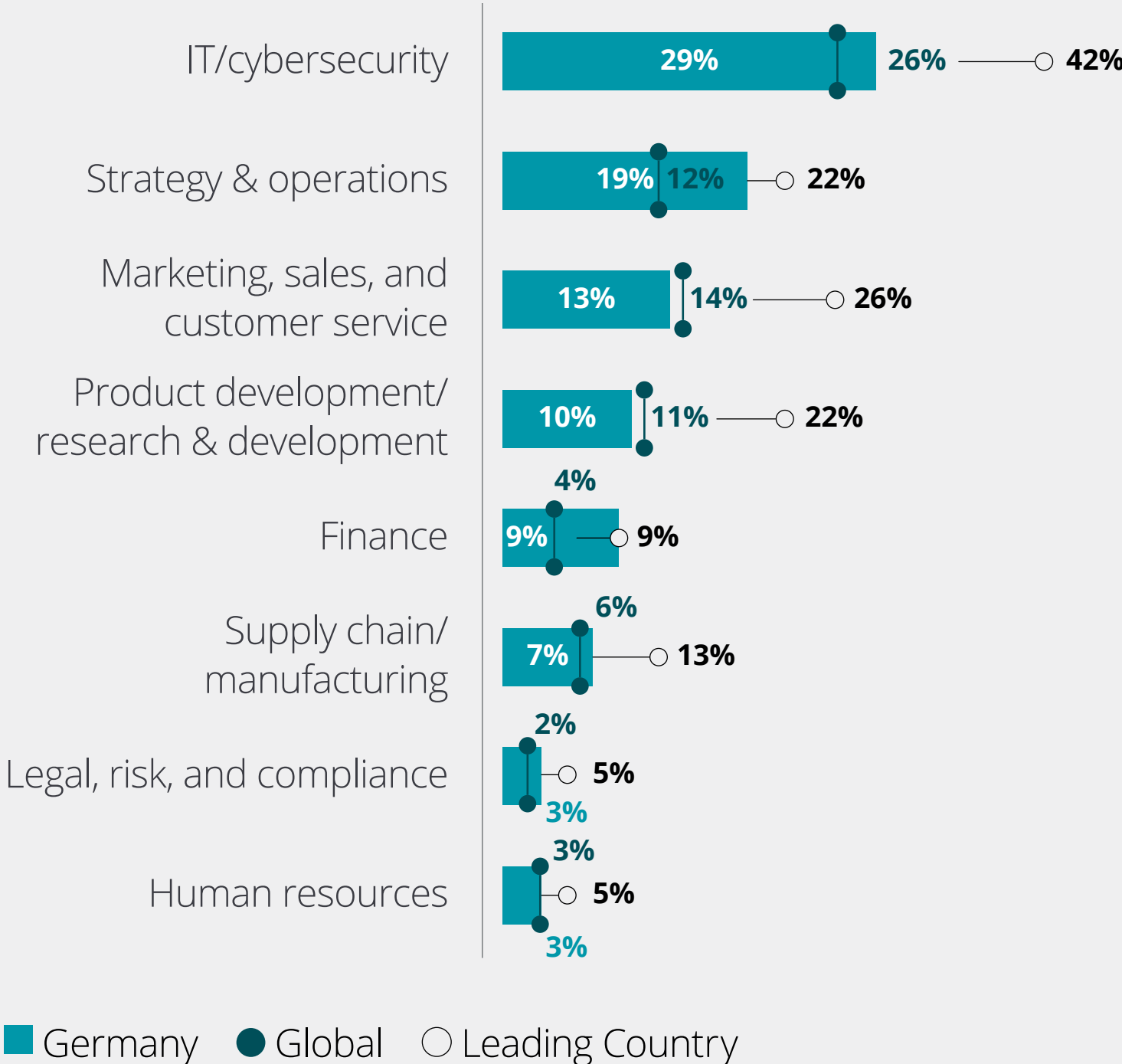
To catch up with global frontrunners like Canada in IT and cybersecurity or Japan in marketing and sales, German

leaders should foster a culture of innovation. Expanding AI adoption beyond efficiency-driven applications will be crucial to sustaining growth.

When respondents were asked to map their most advanced Generative AI initiative to a specific function, a similar yet more pronounced trend emerges. In line with the global average of 28%, the IT function leads in German organizations, with 27% of respondents reporting advanced initiatives. Operations follow, though with a notable gap, as only 12% of respondents in Germany (11% globally) report advanced Generative AI initiatives.

Other sectors, such as HR, legal, R&D, finance, and even manufacturing—surprisingly for Germany—lag behind, with 5% or fewer reporting their most advanced initiatives, highlighting slower adoption and integration challenges. The data suggests that Generative AI thrives in functions with established tech expertise and a strong affinity for new technologies. Decision-makers should focus on equipping other functions to capitalize on the Generative AI advancements already present in more tech-forward areas.

Current adoption levels across functions
Respondents selecting “At scale implementation”



39% of organizations we surveyed in Germany said they will significantly increase (>20%) AI investments in the next fiscal year, placing Germany at the top of all surveyed countries

Figure 2 Q: What is your organization's current adoption level of generative AI across the following functions?
(July/Sept. 2024): N (Germany) = 150, N (Global) = 2,773

Now: Key findings

German organizations are going beyond adoption, taking the lead in experimentation. A remarkable 21% of respondents report conducting over 50 Generative AI experiments, placing Germany significantly ahead of the Netherlands, the next closest country, at 14%. (figure 3).

The ambition to scale is equally remarkable; 21% foresee that more than half of their AI projects will reach full implementation within the next three to six months, surpassing the global average of 18%. This indicates a readiness for change.

The return on investment (ROI) for Generative AI initiatives in Germany is strong, with 32% of respondents reporting returns above 30%, positioning Germany first globally for ROI realization, compared to 20% globally.

This positive ROI trend is further supported by 37% of respondents in Germany reporting their ROI as above expectations, surpassing the global average of 31%. In contrast, 29% of respondents report their ROI as below expectations, which is higher than the global figure of 24%.

Additionally, Germany leads globally in integrating Generative AI into work processes, with 39% of respondents reporting full integration, 6% above the global average.

This confirmation of value draws organizations to invest further in AI initiatives, perpetuating a positive feedback loop, but as the survey result shows, mainly focused on improving efficiency and productivity, while other important areas like innovation and growth are lagging further and further behind.

German organizations are pursuing significantly more GenAI experiments than their global counterparts

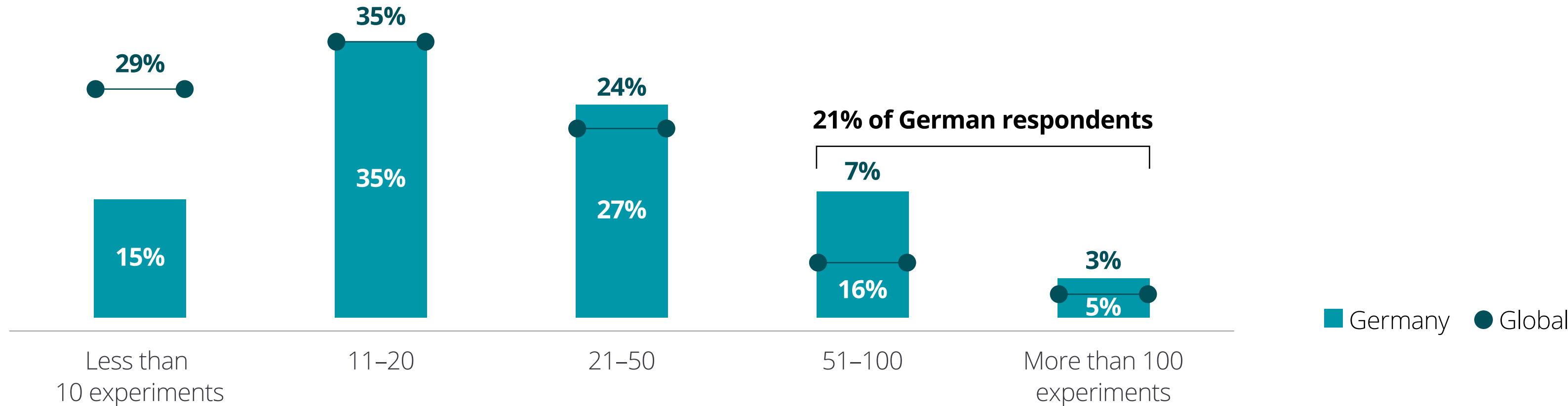


Figure 3

Q: Approximately how many Generative AI experiments or proofs of concept is your organization currently pursuing?

(July/Sept. 2024): N (Germany) = 150, N (Global) = 2,773

Now: Key findings

Taking a wider perspective on Germany's preparedness in key areas paints a broader picture of its potential and remaining challenges to scale AI effectively.

Germany's technological infrastructure and strategic planning readiness stand out. About 51% of respondents report being at least highly prepared in technology and infrastructure, surpassing the global average of 47%. Similarly, 48% report being at least highly prepared in data management (figure 4). Compared to wave 1, preparedness has improved in all areas, with the most significant increase in strategy, where 48% are now "highly" or "very highly prepared" up from 27% in wave 1.

Despite improvements across the board, talent and risk management preparedness continue to lag behind and could obstruct future progress. About 34% report being inadequately prepared in both talent and risk & governance, underscoring the need for strategic focus in these areas (figure 4). Addressing these challenges is essential for maintaining momentum and scaling AI initiatives.

As AI practices mature, striking a balance between innovation and control, along with further investment in the workforce, remains crucial for sustained success. While the focus has been on refining existing processes, shifting more attention toward innovation-led growth will enable companies to fully leverage AI's transformative capabilities. German enterprises are well-positioned to capitalize on this potential, ensuring long-term competitiveness as they navigate the evolving landscape.

Preparedness in areas like Talent and Risk & Governance lag behind

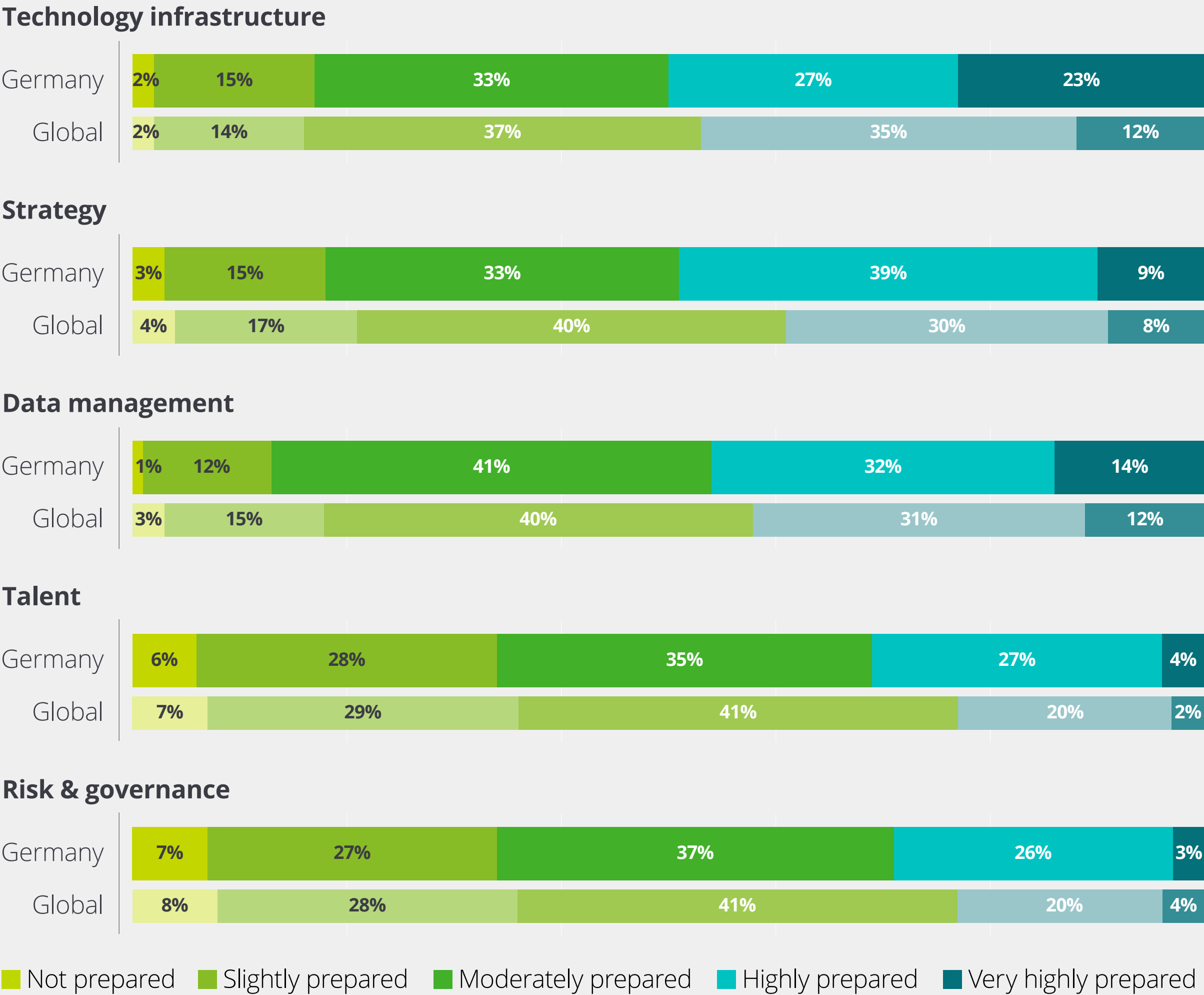


Figure 4

Q: Consider the following areas. For each, rate your organization's level of preparedness with respect to broadly adopting Generative AI tools/applications?

(July/Sept. 2024): N (Germany) = 150, N (Global) = 2,773

Now: Key findings

2 Organizational challenges and barriers to scaling

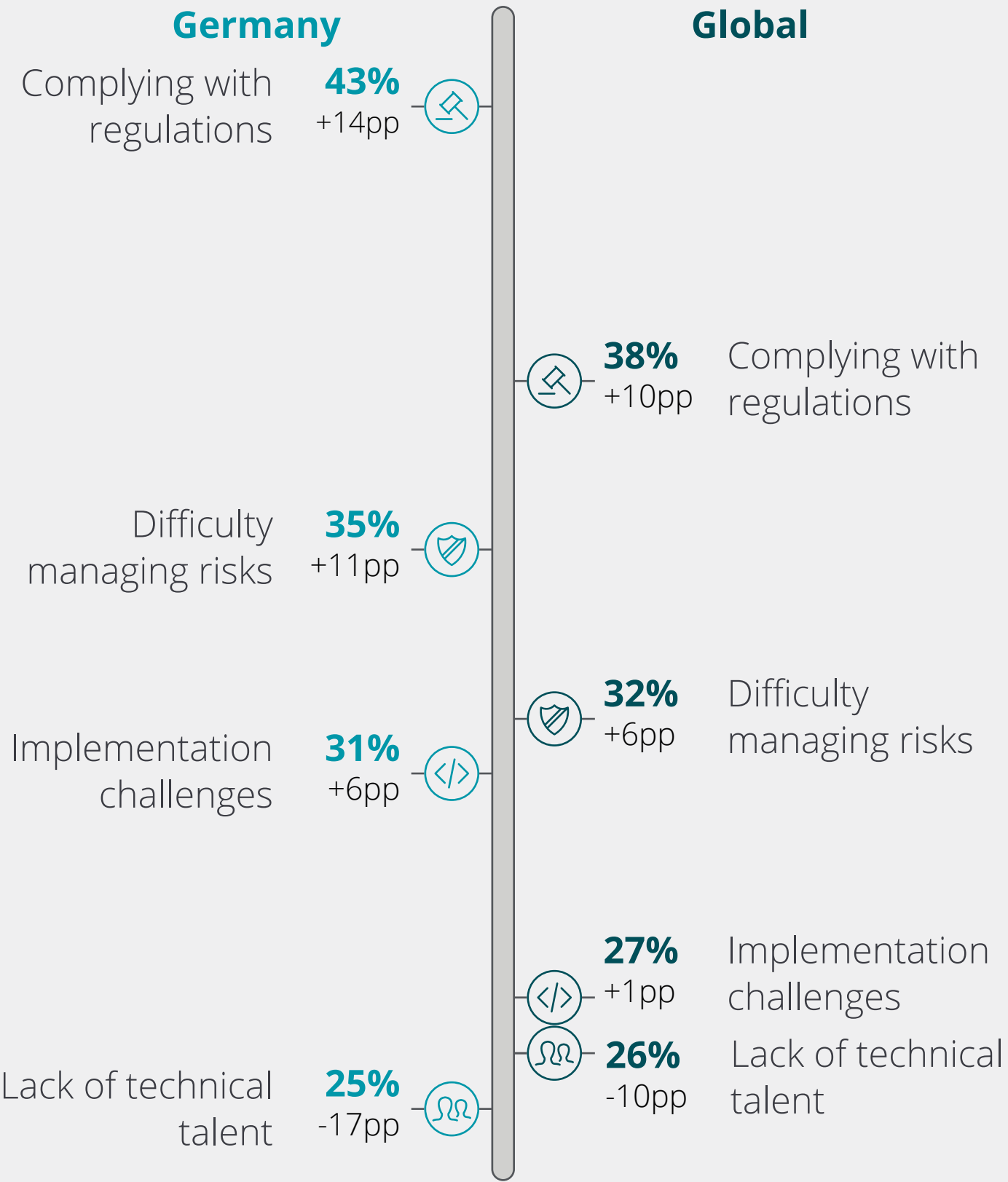
The rise of generative AI technologies is transforming organizations. However, many face hurdles in integrating these innovations. Understanding these challenges is crucial for successful adoption. Interestingly, only 15% of respondents perceive their current business models as significantly threatened by Generative AI. Alarmingly, almost half of respondents in Germany (47%), report little to no threat at all, significantly higher than the global average of 37%. This low level of concern may indicate a disconnect between the urgency for AI adoption and the recognition of its potential impact. Organizations must confront this inconsistency, as underestimating AI’s implications could hinder progress.

A substantial 43% of German respondents feel ‘a lot of’ or ‘extreme’ external pressure to adopt Generative AI, significantly above the global average of 35%, due to competitive forces and stakeholder dynamics. Simultaneously, 35%, compared with 30% globally, report internal pressures from leadership and employee demands to initiate these technologies. The dual forces of internal and external pressure create a complex landscape that can drive organizations to innovate while grappling with the constraints of compliance and cultural inertia.

As organizations in Germany adopt Generative AI, we see a significant shift in the barriers that are impeding development. Regulatory compliance is now identified as the biggest barrier both by German respondents with 43%, compared to only 29% in wave 1. This aligns closely to the global average with 38% in wave 4 and 28% in wave 1 (figure 5). This apprehension leads to a perception of implementation roadblocks, impacting organizations’ approaches to deploying AI technologies. The complexities of navigating legal frameworks can not only slow down innovation but can also create an intimidating environment for companies eager to harness AI’s potential. Regulatory compliance is reflected in a number of concerns.

The interplay between compliance and risk management poses further challenges, as 35% of respondents in Germany, slightly above the global average of 32%, noted difficulty in managing risks related to Generative AI (figure 5). Moreover, the lack of explainability and transparency in AI tools was cited by almost one third of respondents in Germany as a significant concern (figure 6), compared with 28% globally. This lack of understanding can exacerbate mistrust, complicating plans for adopting Generative AI. Effective governance frameworks are vital to address these interwoven issues responsibly.

Top four barriers of adoption



The percentage points indicate the change compared to wave 1 results.

Figure 5 Q: What, if anything, has most held your organization back in developing and deploying Generative AI tools/ applications?
(July/Sept. 2024): N (Germany) = 150, N (Global) = 2,773

Now: Key findings

An additional challenge is the implementation process itself. An increasing number of German respondents – almost one-third, compared with one-quarter in wave 1 – flagged it as a major barrier. The findings from our survey suggest that initially organizations in Germany were notably worried about the lack of technical talent – placing it at the top with 41%, compared to 36% globally. One year later, one-quarter of respondents in Germany still perceive the talent gap as critical, but other challenges, now mainly connected to the deployment of Generative AI, seem to concern decision makers even more (figure 5). As deploying Generative AI applications into production becomes more of an imperative, businesses need to balance a focus on risk and compliance with the ongoing need to equip employees with the necessary skills to tackle these hurdles.

Companies often grapple with data security issues and the potential for unauthorized data use, in fact with 36% of respondents anxious about the misuse of data in commercial AI tools German respondents identify this as the number one risk, compared with only 27% globally (figure 6).

Concerns around unauthorized use rank highly, with 36% of respondents anxious about the misuse of data in commercial AI tools (figure 6). Coupled with the lack of explainability, these issues stress the need for transparent AI prac-

tices that meet regulatory standards while safeguarding organizational integrity. Significantly, 30% of respondents expressed a lack of confidence in AI-generated results, revealing a widespread mistrust that dampens enthusiasm for adoption.

Legal and ethical considerations also play a vital role. Intellectual property worries, cited by 22% of respondents, complicate the landscape further. The emergence of “shadow IT” practices, mentioned by 18%, underscores the need for coherent governance models that dictate

acceptable AI use. Organizations must foster a culture of responsible AI engagement that mitigates risks and builds employee acceptance of these technologies.

Overall, addressing the multifaceted barriers to Generative AI adoption requires a holistic strategy that integrates regulatory navigation, talent development, and cultural adaptation. Embracing a proactive and collaborative mindset will position German organizations to derive greater value from Generative AI and enhance competitive advantage in an increasingly dynamic landscape.

Top 3 risks German organizations are worried about

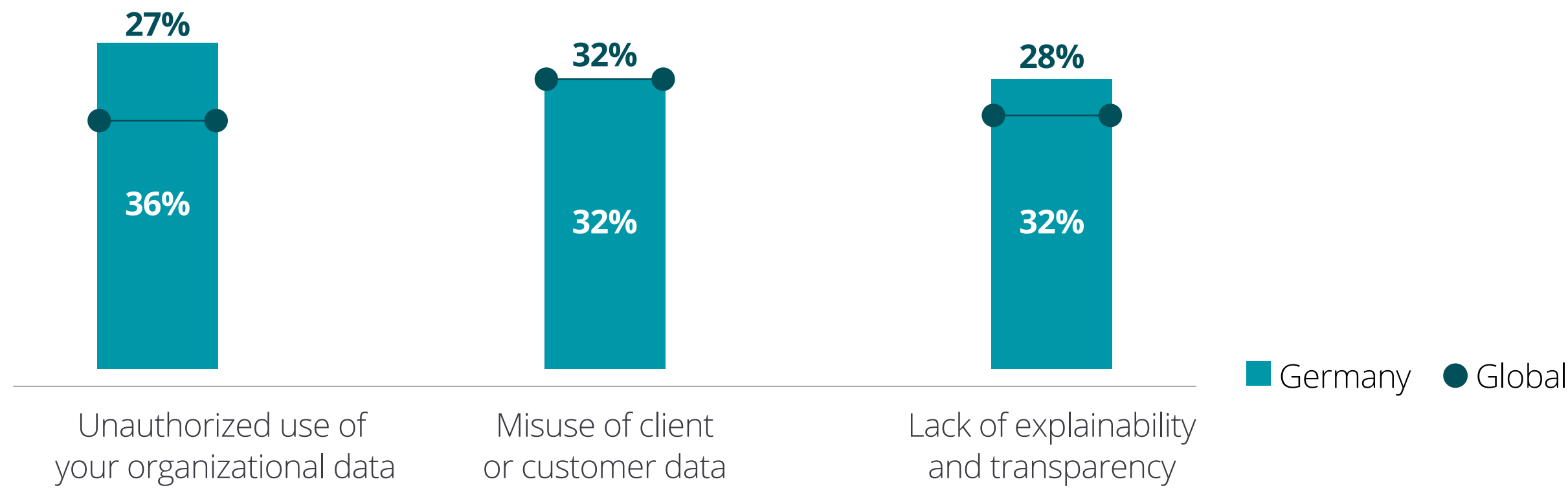


Figure 6 Q: Which of the following risks related to Generative AI tools/applications is your organization most concerned about? (July/Sept. 2024): N (Germany) = 150, N (Global) = 2,773

Now: Key findings

3 Impact on workforce dynamics

Generative AI is rapidly changing workforce dynamics. As organizations adopt this powerful technology, they must consider its impact on job roles and workforce strategies. The integration of Generative AI presents both immense opportunities and challenges. Companies are working to maximize the benefits while addressing concerns about potential employee displacement.

In Germany, access to Generative AI tools is significant. Approximately 25% of respondents report that over 60% of their workforce has access to these tools, placing Germany second compared to other countries, shortly behind Japan with 26%. The global average is 10 percentage points behind, with 15%. This higher access underscores Germany's commitment to integrating AI technologies into everyday operations. However, access alone does not guarantee successful integration. In fact, 23% of German respondents confirm that employees with access use Generative AI tools daily, placing Germany at the top amongst all surveyed countries and greatly surpassing the global average of 11% (figure 7). This level of engagement indicates that German

organizations are not just provisioners of technology; they are actively fostering a culture of AI-utilization within their teams. This aligns with a broader goal of enhancing productivity and operational efficiency. However, it also necessitates the creation of robust guidelines to manage responsible use. High accessibility can enhance employee morale, but organizations must be mindful of the risks related to misuse and over-reliance on AI outputs.

The pace of adoption of Generative AI technology is striking. Approximately 57% of German respondents report that their organizations are adopting this technology "somewhat fast" or "very fast," slightly above the global average of 52%. Moreover, a quarter of organizations are adopting "very fast." This momentum indicates a strong shift toward reimagining business operations. Nevertheless, the rapid pace of adoption requires careful workforce transitions. Companies must equip teams with the necessary skills while aligning technological advancements with employee development.

Germany's workforce leads in using GenAI tools on a day-to-day basis

Respondents selecting that more than 60% of the workforce are using provided GenAI tools on a day-to-day basis

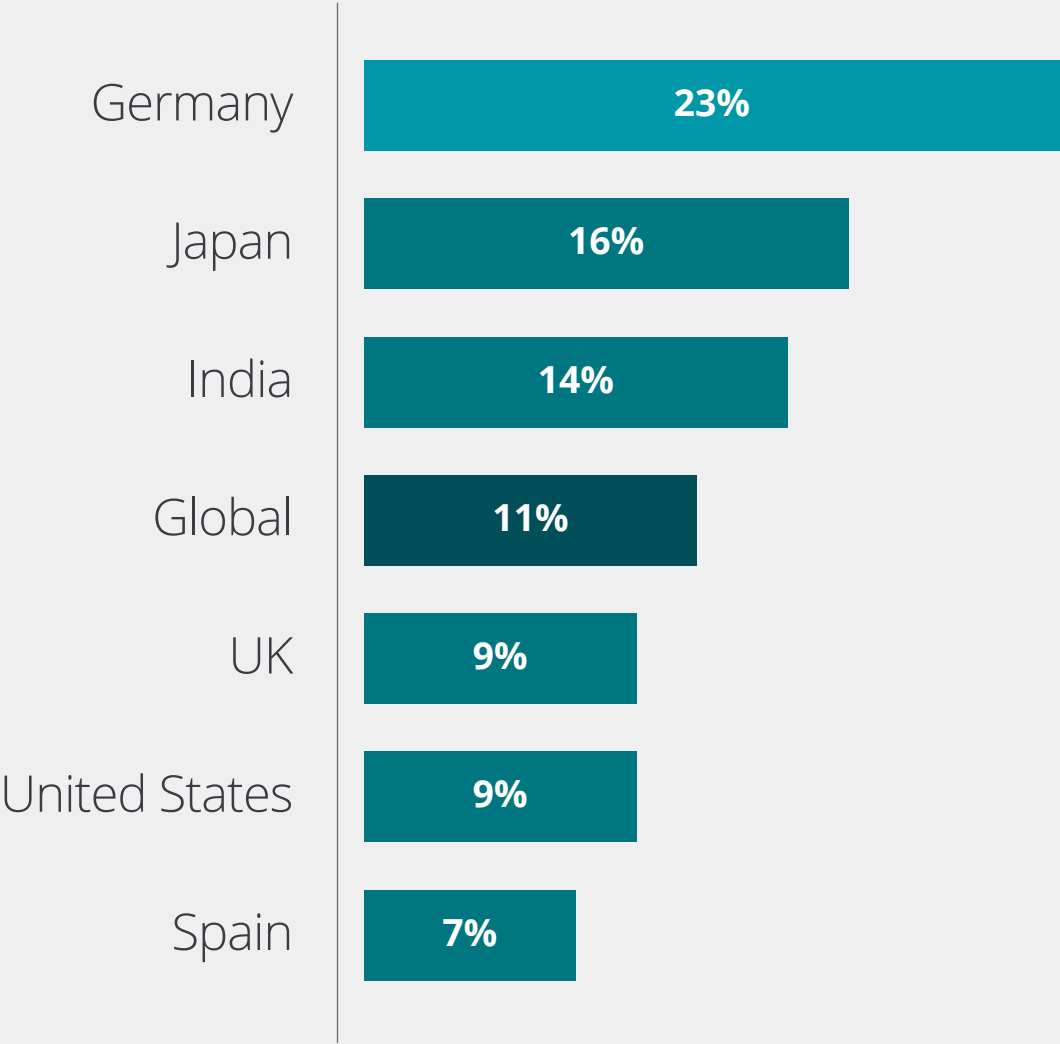
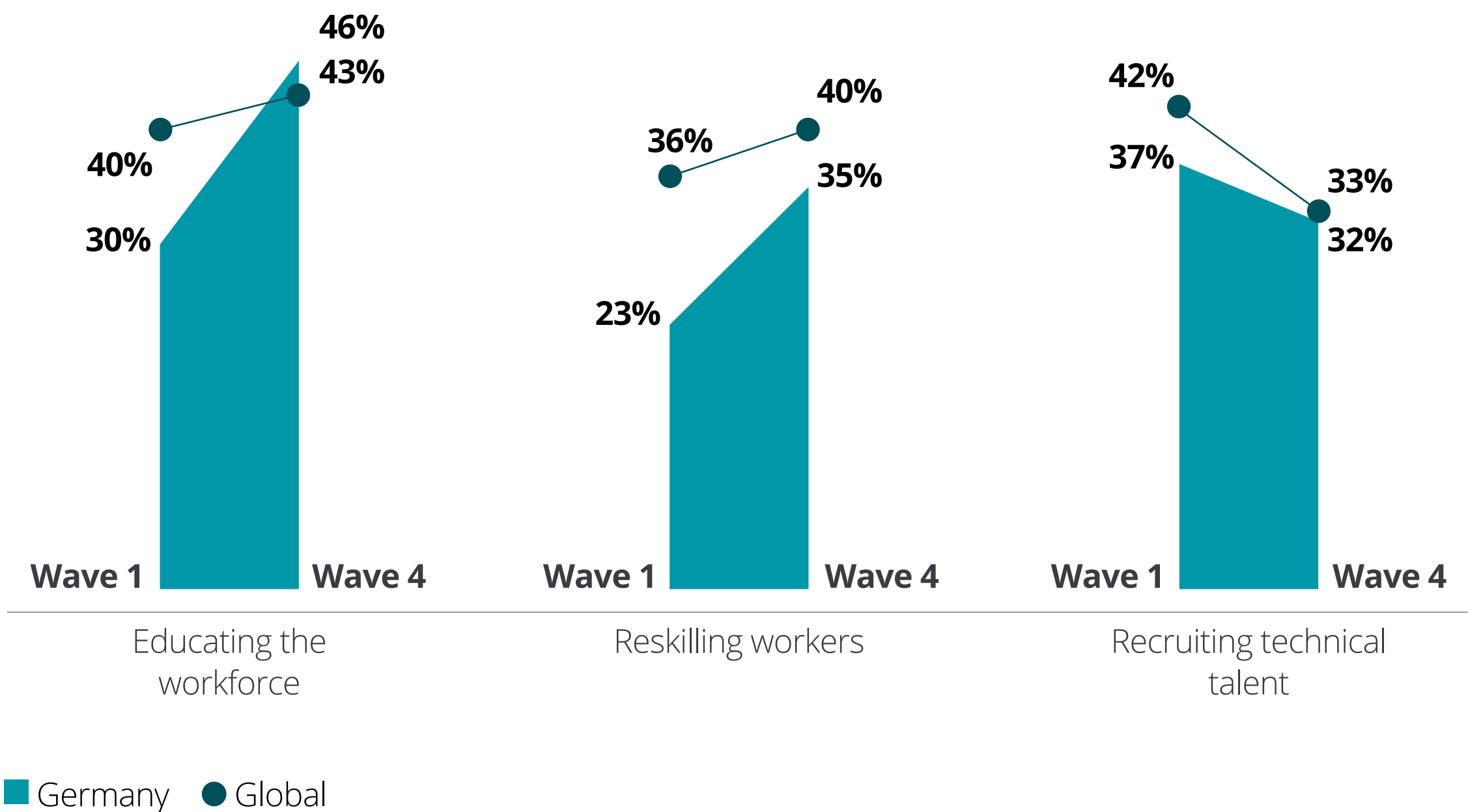


Figure 7 Q: Of those in your organization who have access to Generative AI tools/applications, what percentage are using the tools/applications on a day-to-day basis as part of their workflow?
(July/Sept. 2024): N (Germany) = 150, N (Global) = 2,773

57% of organizations we surveyed in Germany said they are adopting Generative AI 'somewhat' or 'very fast'

Now: Key findings

Organizations pivoted in the way they are preparing the workforce to use Generative AI
Respondents selecting “High” or “Very high level of effort”



Over the last year, priorities have shifted from hiring new technical talent to educate and reskill the workforce instead

Figure 8 Q: What level of effort is your organization taking regarding the following workforce related areas?
Q1 (Oct./Dec 2023): N (Germany) = 150, N (Global) = 2,835
Q4 (July/Sept. 2024): N (Germany) = 150, N (Global) = 2,773

Now: Key findings

Attitudes towards headcount changes show a complex picture. 25% of German respondents anticipate a moderate or significant decrease in headcount over the next 12 months as a direct result of implementing Generative AI strategies, well above the global average of 14%. This raises essential questions regarding workforce dynamics, as this attitude can only partially be ascribed to the impact of demographic change. While Generative AI can enhance efficiency, companies must also strategize on how to support employees facing changing roles or potential redundancies. The data indicates the potential for extreme tech-optimism in Germany, focusing solely on the efficiency gains and leaving out important parts of the equation left and right. This may be the sign of a lack of growth mindset in German organizations. The challenge lies in balancing enthusiasm for innovation with the need for effective personnel and change management. Especially, since lack of technical talent remains in the top four barriers to adopting Generative AI.

Despite concerns about workforce reductions, there is a notable focus on reskilling employees, indicating a strategic pivot towards internal development rather than external hiring when comparing to the survey findings from wave 1. Over the last year, recruiting technical talent went from the number 1 measure taken by organizations to the least

taken course of action – with similar trends both in Germany and on a global level (figure 8).

Meanwhile, efforts to educate the broader workforce in Germany have significantly increased, with 46% of respondents in wave 4 indicating a “high” or “very high” level of effort, up from 30% in wave 1. This development might be partially driven by the AI literacy requirements from the EU AI Act. Germany now surpasses the global average, which also saw an increase from 40% to 43%. Such educational initiatives are crucial for fostering a culture of continuous learning and preparing employees for the evolving demands of Generative AI. Additionally, reskilling efforts in Germany have risen from 23% in wave 1 to 35% in wave 4, although still slightly below the global average of 40% (figure 8). This increase highlights the growing recognition of the need to equip employees with new skills to adapt to changing roles. By equipping employees with AI knowledge, organizations can empower workers for future responsibilities, enhancing overall employee satisfaction.

Business leaders must ensure that the rapid pace of AI adoption is complemented by solid workforce development strategies. Addressing the challenges of access adoption, and workforce development, by investing in employee reskilling programs is essential to creating a resilient

workforce and mitigating potential staff frustrations. Clear communication about AI’s strategic use can uphold morale amidst these changes.

The journey toward maximizing AI’s potential is just beginning, and strategic workforce management will ultimately shape a successful transition in an AI-driven world.



4

Now: Key findings

Future Expectations: Agentic AI Unfolding

In today’s digital landscape, Generative AI emerges as a transformative technology with the potential to reshape business operations profoundly. As organizations in Germany delve into AI advancements, a dual narrative unfolds; one of optimism and another of significant caution.

A prominent trend is the optimism surrounding autonomous agents, with 62% of German respondents expressing increased interest in Agentic AI, surpassing the global average of 52% (figure 9) and placing Germany second globally. Moreover, Germany leads globally in exploring autonomous agent development, with 35% of respondents selecting “to a large” or “very large extent”—well above the global average of 26%. This trend indicates a strong commitment to leveraging AI for greater operational autonomy and productivity.

Furthermore, the high interest in multimodal capabilities – 49% compared to the global average of 44% – suggests an intention to utilize diverse data types to enhance user interactions and derived insights. The emphasis on advancing training techniques is noteworthy, with a 41% interest in Germany versus the 35% global average, indicating a concerted effort to ensure high-quality data input (figure 9).

Despite this optimism, caution prevails. Key concerns include uncertainty about achieving the expected value from AI investments, with 42% of German respondents expressing this worry – significantly above the 34% global average (figure 10). Organizations must establish realistic expectations and measure outcomes effectively to align ambition with actual results.

Access to high-quality data is the second most pressing issue in Germany, ranked at 34%, slightly above the global average of 30% (figure 10). Without reliable datasets, the potential of Generative AI cannot be fully realized. Poor data quality hinders AI performance and can exacerbate bias and inaccuracies, damaging trust in these systems.

Intellectual property concerns emerge prominently as well, with a third of German respondents identifying it as a significant barrier – well beyond the global average of 25% (figure 10). Navigating the intersection of innovation and compliance remains crucial for organizations aiming to leverage AI responsibly.

GenAI developments with most executive attention

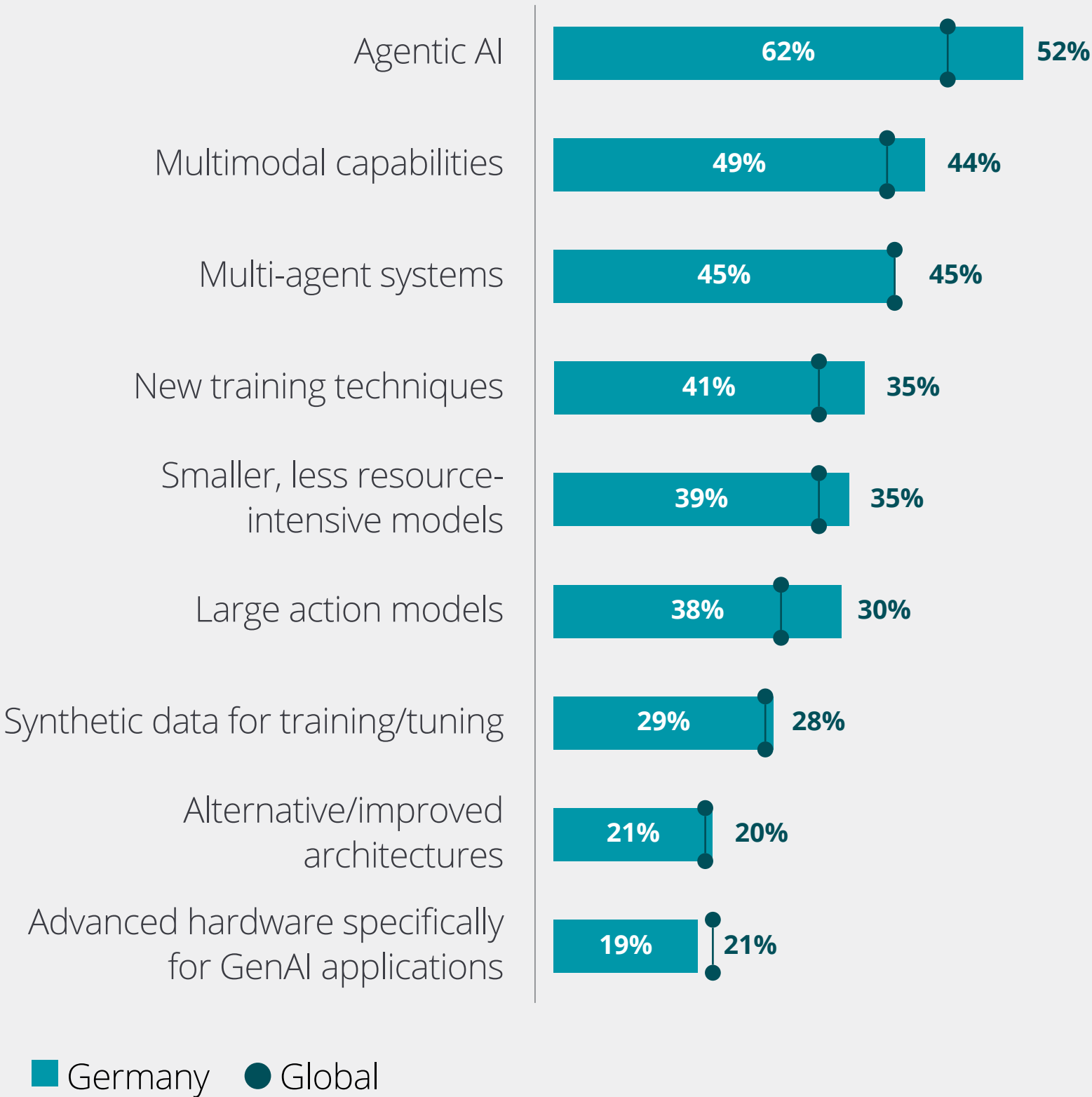


Figure 9 Q: What Generative AI technology developments is your organization most interested in?
(July/Sept. 2024): N (Germany) = 150, N (Global) = 2,773

Now: Key findings

Concerns related to bias, hallucinations, and inaccuracies are also prevalent; 30% of respondents in Germany expressed apprehension regarding potential negative consequences of Generative AI (figure 10). This aligns with global sentiments, revealing fears about the ethics and reliability of these technologies impacting broader adoption.

Organizations demonstrate eagerness to innovate, yet they grapple with skepticism about the value these technologies might deliver. This duality presents a unique challenge for decision-makers: how to balance ambitious explorations of AI capabilities with valid apprehensions regarding implementation.

The future of Generative AI in the German market will be characterized by both challenges and opportunities. While concerns about value realization and data quality persist, the proactive exploration of autonomous agents points to a resolve for technological advancement. As companies begin to leverage Generative AI at scale, they will rely on their awareness of these challenges to inform strategic decisions and operational frameworks.

The evolution of AI hinges not only on technological capability but especially on the organizations' readiness to adapt and change.

Market impediments to Generative AI adoption



Figure 10

Q: Which of the following do you think could MOST slow overall marketplace adoption of Generative AI over the next two years?
(July/Sept. 2024): N (Germany) = 150, N (Global) = 2,773



Next: Looking ahead



Next: Looking ahead

+ From experimentation to adoption at scale

To fully unlock the potential of Generative AI, organizations must nurture a culture rooted in continuous experimentation and learning. This commitment is essential for enhancing operational efficiencies and equipping businesses to adeptly respond to shifting market dynamics. Findings from our survey indicate that organizations prioritizing robust technology infrastructure and strategic alignment are more likely to realize significant returns on their investments.

The path forward necessitates a solid risk management and governance framework to ensure that the adoption of Generative AI is ethical, responsible, and consistent with organizational values. By proactively mitigating potential risks and addressing compliance challenges, organizations can foster trust among stakeholders and create a conducive atmosphere for innovation.

As German companies take the lead in experimentation – evidenced by a surge in ongoing Generative AI projects – their commitment to cultivating a robust culture of innovation becomes increasingly vital. Organizations should nurture an environment that encourages experimentation and regards failures as essential learning opportunities. This mindset will not only propel internal improvements but also ensure that businesses remain agile and attuned to the rapidly changing market dynamics.



+ Overcoming barriers to GenAI adoption necessitates a multifaceted approach

As German organizations approach the pivotal moment of Generative AI adoption, a cohesive strategy emerges as essential – one that integrates regulatory compliance, talent development, and cultural transformation.

In the sphere of regulatory compliance, organizations must take proactive steps to engage with legal frameworks, aiming to simplify the complexities associated with Generative AI. By implementing transparent governance structures and compliance protocols, companies can not only mitigate risks but also accelerate their AI initiatives.

Equally important is cultural transformation in dismantling resistance to change. Organizations need to foster a culture of openness and adaptability, ensuring that awareness of AI's potential benefits is widespread. By aligning organizational values with the transformative goals of Generative AI, companies can bolster their readiness for technological advancements.

To effectively overcome barriers to Generative AI adoption, organizations should implement a multifaceted approach that focuses on talent development, cultural evolution, and governance clarity. By embarking on these critical initiatives, companies can leverage the transformative power of AI, ensuring sustainable growth and gaining a competitive edge in an ever-evolving digital landscape.



Next: Looking ahead

+ Acknowledge the symbiotic relationship between AI technology and human capital

As German organizations increasingly harness the transformative capabilities of Generative AI, it is necessary for businesses to adopt a proactive stance in navigating the complex workforce dynamics influenced by automation and technological advancements.

To facilitate this transition, organizations must prioritize a robust framework for integrating Generative AI. This entails not only ensuring access and usability but also cultivating a culture that embraces adaptability and continuous learning. Comprehensive training programs should extend beyond basic AI literacy, equipping employees with the specialized skills essential for emerging roles.

Looking ahead, organizations should also implement feedback mechanisms to evaluate the ongoing impact of AI integration on employee roles and responsibilities. By adopting a responsive framework that adapts alongside technological advancements, businesses can nurture a workforce that remains agile and poised to thrive in an AI-enhanced environment.

Ultimately, as the integration of Generative AI deepens, it is essential for German organizations to acknowledge the symbiotic relationship between technology and human capital. By centering individuals within their strategies, companies can mitigate risks associated with workforce transformations while simultaneously fostering a culture of innovation and resilience.

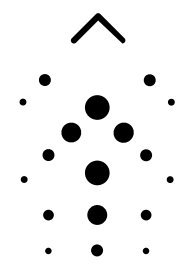


+ Future developments offer the opportunity to reshape operational frameworks

As organizations in Germany confront the complexities of Generative AI, a well-rounded approach is essential for future success. Acknowledging the uncertainties inherent in this arena, companies must prioritize investments in data quality and reliability to maximize the impact of their AI initiatives. Emphasizing the importance of high-quality data will not only alleviate concerns about not fully realizing value but also increase trust in these transformative technologies.

Engaging with cutting-edge solutions, such as autonomous agents and multimodal capabilities, offers organizations a unique opportunity to reshape their operational frameworks. By cultivating a culture of experimentation and fostering cross-functional collaboration, businesses can harness diverse perspectives, unlocking the immense potential of Generative AI.

Moreover, the adoption of progressive budgeting frameworks that emphasize both cost efficiency and value generation will empower organizations to navigate the complexities of AI development while minimizing financial exposure. Striking a balance between ambition and caution is crucial as companies seek to leverage the rapidly evolving capabilities of Generative AI.



Authorship and Acknowledgments



Dr. Björn Bringmann

Managing Director
Lead Deloitte AI Institute Germany
bbringmann@deloitte.de

Björn is a Managing Director at Deloitte Consulting with over two decades' experience in artificial intelligence and digital transformation. He supports clients globally and across industries from AI strategy to AI implementation for sustainable growth.



Peter Fach

Partner
Lead Software Products & Assets
pfach@deloitte.de

Peter leads our teams that develop software products and platforms. He acts as the business sponsor for Deloitte CAMPfire, a marketplace for digital assets which we deploy for clients to scale and monetize their AI & software developments.



Dr. Sarah J. Becker

Partner
Digital Ethics Lead
sarbecker@deloitte.de

Sarah leads the Digital & AI Ethics practice at Deloitte. For more than 15 years, she supports DAX companies, family businesses, non-profit organizations and public institutions in their digital transformation. She is a renowned expert in strategies and programs to operationalize digital ethics and AI governance.



Maria Schamberger

Senior Manager
Deloitte AI Institute Germany
mschamberger@deloitte.de

Maria is a Senior Manager at the Deloitte AI Institute in Germany. She supports organizations in their successful transformation in the age of AI, guiding them in AI strategy development and holistically improving their AI readiness.



Philipp Wendland

Senior Consultant
Deloitte AI Institute Germany
pwendland@deloitte.de

Philipp is a Senior Consultant at the Deloitte AI Institute in Germany with a strong technical background. His focus is on the intersection of management and AI technology.

Acknowledgments

Firstly, we would like to thank the authors of the global version of Deloitte's [State of Generative AI in the Enterprise, Quarter four report](#) (in alphabetical order): Beena Ammanath, David Jarvis, Costi Perricos, Jim Rowan, and Brenna Sniderman as well as the project sponsors Nitin Mittal, Kevin Westcott and Jeff Loucks

For the creation of the German cut, we would like to thank our German colleagues (in alphabetical order) for the discussion on our findings: Anica Buchholz, Dr. Till Contzen, Ralf Esser, Isabel Gadea, Markus Goetz, and Tatjana Wiebusch.

Finally, the authors would like to thank the many talented professionals who brought this research to life: Lou DiLorenzo, Rohan Gupta, Kellie Nuttal, Baris Sarer, Ajay Tripathi, Ashish Verma, Ahmed Alibage, Siri Anderson, Hali Austin, Saurabh Bansode, Natasha Buckley, Vanessa Carney, Dystnct Media, Tracy Fulham, Jordan Garrick, Karen Hogger, Susie Husted, Lisa Iliff, Wendy Jenkins, Justin Joyner, Diana Kearns-Manolatos, Lena La, Amy Lando, Michael Lim, Cullen Marriott, Rajesh Mediseti, Adriana Mendez, Judy Freeman Mills, Melissa Neumann, Inal Olmez, Jamie Palmeroni, Jonathan Pryce, Negina Rood, Emily Rosenberg, Kate Schmidt, Meredith Schoen, Michael Steinhart, Kelcey Strong, 10 EQS, Sandeep Vellanki, Ivana Vucenovic, Talia Wertico, Micah Whitson, Marianne Wilkinson and Sourabh Yaduvanshi

Transparency note

The creation of this report was supported by AI technologies, with an AI Agent assisting in the analysis of survey data and generating the initial draft. The draft was then thoroughly edited, modified, and verified by human experts to ensure its accuracy, relevance, and clarity.

+ About the Deloitte AI Institute

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

The Deloitte AI Institute aims to promote dialogue about and development of artificial intelligence, 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, startups, entrepreneurs, innovators, mature AI product leaders and AI visionaries to explore key areas of artificial intelligence including risks, policies, ethics, 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.

+ About the Deloitte Center for Integrated Research

The Deloitte Center for Integrated Research (CIR) offers rigorously researched and data-driven perspectives on critical issues affecting businesses today. We sit at the center of Deloitte's industry and functional expertise, combining the leading insights from across our firm to help leaders confidently compete in today's everchanging marketplace.



Methodology

To obtain a global view of how Generative AI is being adopted by organizations on the leading edge of AI, Deloitte surveyed 2,773 leaders between July and September 2024. 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. Fourteen countries were represented: Australia (100 respondents), Brazil (115 respondents), Canada (175 respondents), France (130 respondents), Germany (150 respondents), India (200 respondents), Italy (75 respondents), Japan (100 respondents), Mexico (100 respondents), the Netherlands (50 respondents), Singapore (75 respondents), Spain (100 respondents), the United Kingdom (200 respondents), and the United States (1,203 respondents).

All participating organizations have one or more working implementations of AI being used daily. Plus, they have pilots in place to explore Generative AI or have one or more working implementations of Generative AI 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 fourth quarterly survey, conducted July – September 2024; The State of Generative AI in the Enterprise: Now decides next, a report series. N (Total leader survey responses) = 2,773. This report additionally contains references to Deloitte's first quarterly survey, conducted October – December 2023 N (Total leader survey responses) = 2,835.



deloitte.com/de/ki-studie

Deloitte refers to one or more of Deloitte Touche Tohmatsu Limited (DTTL), its global network of member firms, and their related entities (collectively, the “Deloitte organization”). DTTL (also referred to as “Deloitte Global”) and each of its member firms and related entities are legally separate and independent entities, which cannot obligate or bind each other in respect of third parties. DTTL and each DTTL member firm and related entity is liable only for its own acts and omissions, and not those of each other. DTTL does not provide services to clients. Please see www.deloitte.com/de/UeberUns to learn more.

Deloitte provides industry-leading audit and assurance, tax and legal, consulting, financial advisory, and risk advisory services to nearly 90% of the Fortune Global 500® and thousands of private companies. Legal advisory services in Germany are provided by Deloitte Legal. Our people deliver measurable and lasting results that help reinforce public trust in capital markets, enable clients to transform and thrive, and lead the way toward a stronger economy, a more equitable society and a sustainable world. Building on its 175-plus year history, Deloitte spans more than 150 countries and territories. Learn how Deloitte’s approximately 457,000 people worldwide make an impact that matters at www.deloitte.com/de.

This communication contains general information only, and none of Deloitte GmbH Wirtschaftsprüfungsgesellschaft or Deloitte Touche Tohmatsu Limited (DTTL), its global network of member firms or their related entities (collectively, the “Deloitte organization”) is, by means of this communication, rendering professional advice or services. Before making any decision or taking any action that may affect your finances or your business, you should consult a qualified professional adviser.

No representations, warranties or undertakings (express or implied) are given as to the accuracy or completeness of the information in this communication, and none of DTTL, its member firms, related entities, employees or agents shall be liable or responsible for any loss or damage whatsoever arising directly or indirectly in connection with any person relying on this communication. DTTL and each of its member firms, and their related entities, are legally separate and independent entities.