

Trailblazing digital frontiers

Global IT internal audit outlook

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Foreword

In today's rapidly evolving digital landscape, the role of technology audit has never been more critical. As organizations navigate unprecedented challenges and opportunities, ensuring robust IT governance, compliance and risk management is of paramount importance. A constantly shifting risk universe brings new challenges to the perspective of cyber security, cloud security, generative artificial intelligence (GenAI), data privacy and blockchain, to name a few. Internal audit departments are under pressure to quickly comprehend and manage these new risks, ensure adequate coverage in the audit universe, meet reporting requirements to uphold trust with audit and governance committees, regulators, and other stakeholders, while also utilizing technology effectively to maintain efficiency.

This report looks at the current, emerging and future trends impacting IT internal audit — and at the investment plans, delivery models and skills needed to address these trends. Our insights are augmented by key findings from KPMG International's global survey, which captures the views of over 200 chief audit executives, audit directors, vice presidents and senior managers representing internal audit teams, from a wide range of sectors across 25 different countries.

Despite an increase in the number of technology audit professionals, there is an urgent need to develop skills to cope with the constant stream of new technological threats, to innovate in order to improve audit quality, and to collaborate to access essential capabilities not available inhouse. And we discuss the role of internal audit in enabling swift, safe and ethical adoption of GenAI — as well as using its power to enhance audit performance.

Many organizations are currently undergoing transformations, such as the integration with ERP systems, migration to cloud computing and the adoption of AI and automation technologies. The report also explores how internal audit can add significant value by getting involved at an earlier stage, and provide greater comfort over project and system controls. Further, internal audit teams are rapidly adopting newer operating models including

setting up technology audit hubs that are focused on standardization and streamlining of technology audits.

We conclude with a technology audit pyramid, outlining three stages of maturity — Foundational, Emerging and Trendsetter — and we identify the capabilities technology internal audit teams need for reaching the highest level and delivering greater value.

The survey findings and the experiences of KPMG internal audit professionals point to a pivotal role for IT internal audit in driving transformation, strengthening risk management frameworks and fostering innovation, and ultimately improve organizational resilience. I would like to thank all those who gave their valuable time to participate in this global survey. In a time of permanent disruption, I believe the insights can help internal audit teams in their quest to become even more relevant and effective.



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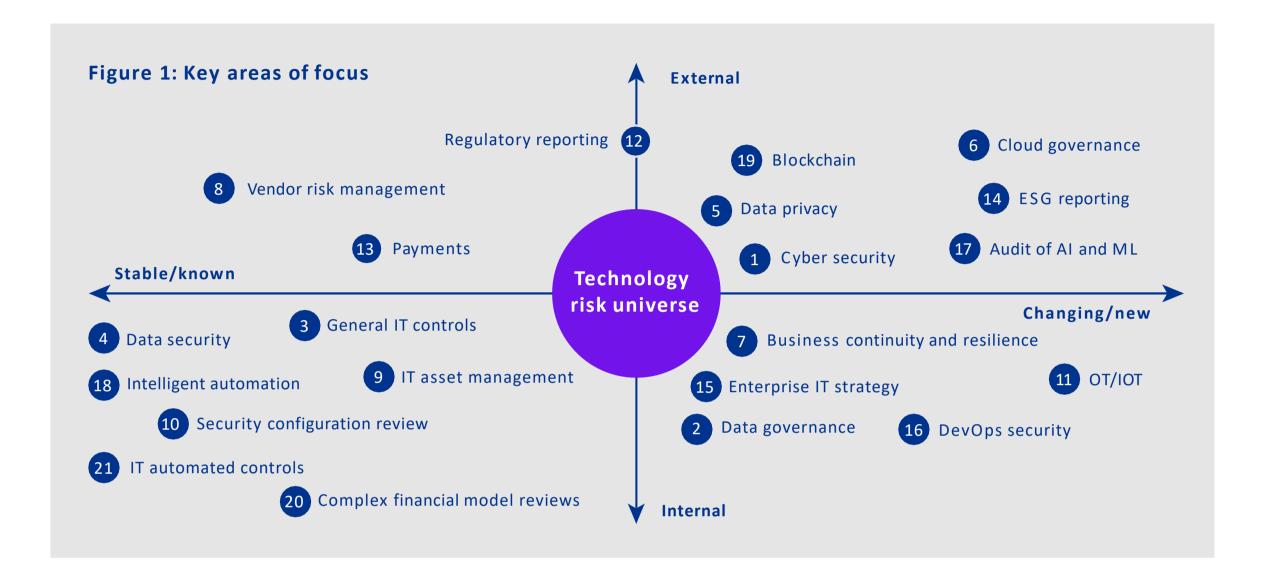
Technology risk universe

Technology risk is constantly evolving and internal audit needs to keep pace. We asked organizations to choose from the risk areas that their technology internal audit team are likely to review in the upcoming audit cycles. The areas chosen most frequently, are cyber security, data governance and general IT controls. Based on the survey responses and KPMG professionals' experience in advising clients on managing technology risks, key areas of focus for technology internal audit have been placed in a risk universe, portrayed in Figure 1. The horizontal axis depicts the pace of change, from static at the left to fast moving on the right. The vertical axis indicates whether the risk tends to be external (above the horizontal axis) or internal (below it).

The top three areas under scope for upcoming audit cycles remain unchanged since 2021 when this survey was previously conducted, reflecting the immediate focus of many organizations. Information security and cyber security assessments, which kept the number one position, are the organizations' response to the rising occurrence of cyber breaches leading to loss of data and system disruption. Data underpins every activity, and data governance remains the second most important area to be audited. As GenAl usage grows, data governance should become even more critical, and internal audit is well positioned to help identify data governance weaknesses and develop remediation plans, to avoid exposing immature data controls to threats from GenAI.

All organizations have a technology challenge: if they don't keep up with the latest trends, they will lose to their rivals; if they move too fast, they are vulnerable to faulty, untrustworthy data and insights, cyber attacks and loss/ theft of private data and intellectual property. Effective data governance gives employees the confidence to use AI and advanced automation to speed up operations, innovate with exciting new products and services, and generate financial and, increasingly, non-financial reports that can withstand intense scrutiny – especially in highly regulated industries. The ongoing emphasis on general IT controls as a top priority underscores the significance of traditional technology audit domains. This sustained focus reflects an understanding that, even as new areas are incorporated into the scope, the foundational assurance provided over key applications remains critical. This balanced approach ensures that while innovation is pursued, it is not at the expense of the security, integrity and availability of critical IT systems and data.

Due to the global technology transformation, new areas are becoming key focus points. Topics such as AI and ESG are rapidly being adopted worldwide, and as a result, they are becoming increasingly important in the field of evolving risks.





In this time of digital transformation and emergence of GenAI, everything is based on data and AI is only as good as the data sets that feed into it. Data governance and AI controls are critical focus areas of IT internal audit, to confirm that organizations are meeting their customer promises and protecting themselves from ever present cyber threats.



James Buchanan ASPAC Head of Tech Governance and IT Internal Audit and Partner **KPMG** Australia





Trusted AI

Despite the rise of AI, actual audits of AI systems are still considered a relatively lower priority in terms of scope. This is set to change as corporate adoption of AI increases and organizations need more assurance over new AI risks. It may be challenging to audit AI systems, readiness, governance and usage of AI tools, but internal audit can adapt and apply different techniques. Failure to do so could leave organizations vulnerable to AI risks, as well as to biases from Al-driven models and algorithms fed with poor-quality data, which could lead to false conclusions.

Al is uncharted territory, and internal audit — and the rest of the organization — is still on a learning curve in understanding and alleviating the associated risks.

With its strategic approach to ethical, responsible and trustworthy AI deployment, the KPMG Trusted AI framework addresses the complexities and risks associated with AI technologies by embedding ethical standards and principles into the lifecycle of AI solutions. Its foundational principles are value-driven and human-centric, applying trustworthy approaches to help ensure AI is used responsibly and aligns with professional standards and values (Figure 2).

Figure 2: The Trusted AI framework



Fairness

Ensure models reduce or eliminate bias against individuals, communities or groups



Transparency

Include responsible disclosure to provide stakeholders with a clear understanding as to what is happening within the AI solution and across the AI lifecycle



Explainability

Ensure AI solutions are understandable as to how and why recommendations are made or conclusions drawn



Accountability

Embed human oversight and responsibility across the Al lifecycle to manage risk and ensure compliance with regulations and applicable laws



Safeguard against unauthorized access, bad actors, misinformation, corruption, or attacks



Privacy

Ensure compliance with data privacy regulations and consumer data usage



Sustainability

Optimize AI solutions to limit negative environmental impact where possible



Data integrity

Ensure that data quality, governance, and enrichment steps embed trust



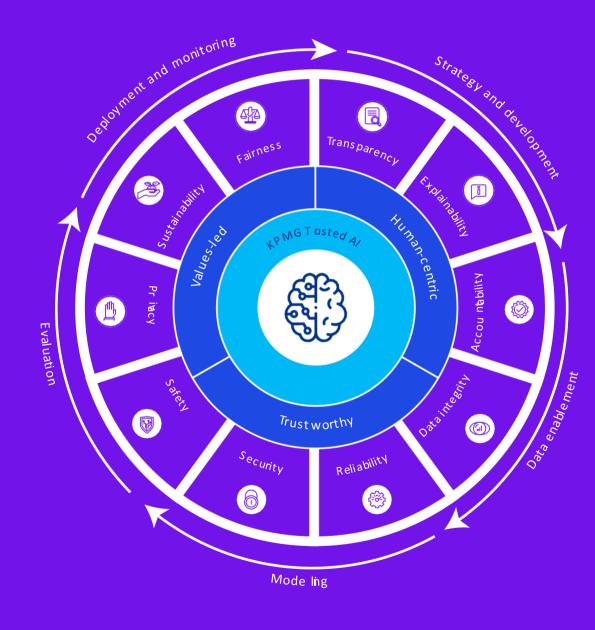
Reliability

Ensure AI systems perform at the desired level of precision and consistency



Safety

Safeguard AI solutions against harm to humans and/or property



The framework emphasizes ten ethical pillars: fairness, transparency, explainability, accountability, security, privacy, sustainability data integrity, reliability, and safety. These guide AI solutions to reduce bias, provide clarity to stakeholders, maintain data integrity, and operate reliably and securely. All of which helps build credibility and trust in the audit, reinforcing the commitment to professional excellence and public interest.



ESG Assurance

Although they face increasing regulations, and a growing risk of penalties and reputational damage from poor ESG performance and inadequate disclosure, survey respondents give a relatively low priority to ESG reporting and metrics. ESG may not appear to be a high risk at present, however, as organizations everywhere strive to become more sustainable and reduce their environmental impact, it is set to rise in importance and audit professionals should sharpen up their skills accordingly.

According to the survey, only one-fifth (21 percent) of IT internal audit teams are involved in ESG assessments or readiness. Data is the driving force behind ESG implementation, so auditors need to view this as a 'technology' issue and gain a deep knowledge of non-financial metrics and compliance, to assure the processes, controls and integrity of this data.

As ESG becomes an integral part of operations and innovation, technology is enhancing ESG auditing. A recent KPMG International article, Techdriven ESG: Navigating risks with precision, discusses internal audit's vital role as a third line of defense, assessing ESG risks, ensuring auditability of data across the value chain, and confirming that risk management is keeping pace with new regulations based upon emerging standards.

Additionally, the 'G' in ESG – Governance – covers cyber security breaches, that could lower an organization's ESG rating. As more ESG metrics go mainstream, this topic is set to rise in prominence, to help make non-financial reporting smoother and faster, and gain assurance over ESG data-gathering platforms. Different countries are moving at different speeds in implementing ESG regulations, so it's vital to regularly review developments around the world.

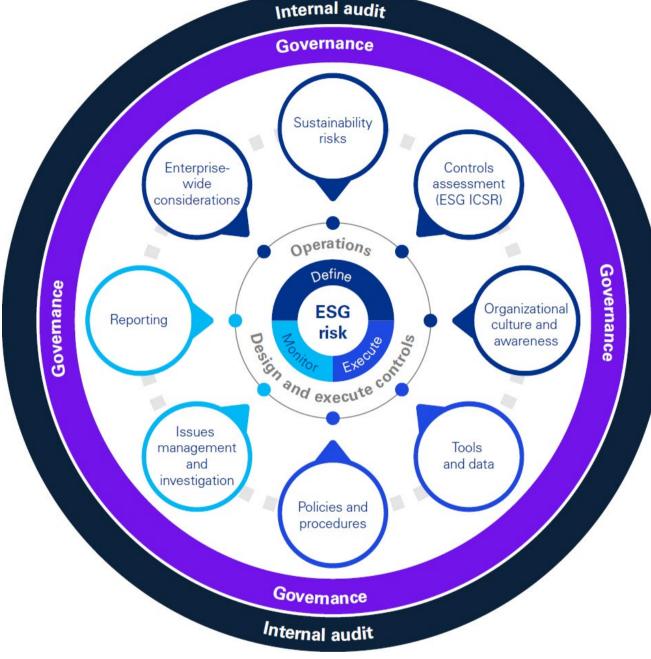
Adapting to a dynamic risk universe

To address growing regulatory and stakeholder demands, digital tools are likely to dominate ESG auditing, especially the ones that integrate All and data analytics, to conduct more accurate and comprehensive ESG reporting and compliance.

Figure 3 demonstrates some key risk domains that internal audit needs to consider while determining their ESG assurance strategy. This approach not only meets regulatory expectations but also supports strategic business goals, integrating ESG within organizational frameworks – rather than merely making superficial, unsubstantiated commitments.



Figure 3: Internal audit coverage across key ESG categories



Source: Internal Audit's Role in ESG



As boards place an increasing focus on ESG, organizations are increasingly generating non-financial metrics covering sustainability, supply chain integrity, working conditions, diversity and governance. IT internal audit professionals need to step up to this challenge, staying ahead of regulations, building skills, and using technologies to manage ESG risks, which include penalties for non-compliance, and potentially severe reputational damage.



Anil KV Global Leader for Tech Governance and IT Internal Audit KPMG International and Partner KPMG India





Coping with external influences

Audit scope can be impacted by external factors, such as the ongoing migration of many organizations to next-generation, increasingly cloud-based or hybrid systems such as SAP S/4HANA. However, it can be a struggle to get funding and business or IT support for such a transition.

Most successful organizations have leveraged their ERP transformation by embedding internal audit and internal control streams. Our survey responses indicate that just 26 percent of internal audit teams are involved in all stages of organizational change journeys. SAP S/4HANA

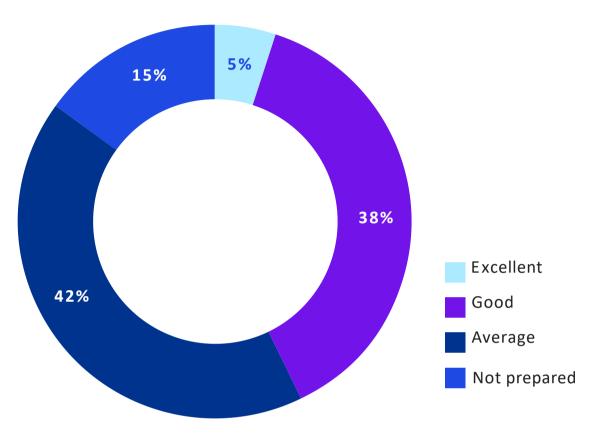
26%

of survey respondents stated that they are involved in all stages of organizational change journeys. transition programs are a great opportunity for earlier participation by internal audit, from the initial planning phase onwards, offering an independent project assessment, to make better use of its discipline in governance and management controls. Internal audit can rationalize responsibilities between lines of defense, to transition manual and detective controls to automated, preventive ones (covering data processing, transaction and accounting, as well as IT general controls). At the same time, internal audit can check to ensure that separation of duties and appropriate access restrictions are in place, to uncover any weaknesses that could lead to unauthorized users entering the system.

Keeping ahead of emerging risks

Just 43 percent of respondents claim to have 'excellent' or 'good' preparedness for auditing risks associated with emerging technologies like cloud security, AI, ML and blockchain (see Figure 4). One concern is the presence of unknown 'unknowns', where audit teams are not aware of risks and consequently fail to include them in audits. As specialists in risk and control, internal audit professionals are uniquely placed to advise the business on how to most effectively cope with the impact of these pervasive new technologies.

Figure 4: How well prepared is your IA team in auditing emerging tech risks?





To cope with a barrage of new technology-related risks, IT internal audit teams should be closely aligned to the business and the risk function, to build credibility and relationships, so that relevant risk information flows through on a real-time basis.



Nicole Lauer
Americas Tech Governance and IT Internal Audit
Leader and Principal
KPMG US







Assessing technology internal audit capabilities

To navigate the ever-changing landscape of risk, organizations are striving to keep up with the rapid global technological changes. They are doing this by leveraging new operating models that have two aspects. The first aspect involves assessing the current skill sets of individuals within the organization. The second aspect focuses on utilizing the available technologies to enhance optimization and efficiency.

Technology has become ubiquitous, ingrained in everything we do. Yet just one in ten of the survey respondents states that half or more of their teams focus on technology audits. Given that 65 percent of the surveyed organizations have an internal audit team of 25 or fewer members, it seems that only a handful of auditors have a well-defined technology agenda.

But do internal audit professionals have the skills to tackle technology audits? The survey responses indicate there are some clear gaps, notably in AI, ML, DevOps and cloud security (see Figure 5). At is a particular challenge, with a pace of growth that exceeds most previous technologies. It's likely that many employees are starting to use AI independently and this could increase data security and privacy risks — as well as inadvertently bringing unreliable information into the organization – calling for stronger governance and guardrails to counter these operational risks.

On the positive side, 80 percent of survey participants say their internal audit functions have data privacy skills. Regulations such as GDPR (General Data Protection Regulation) have put pressure on organizations to manage personal data with care and attention.

And, compared to KPMG's previous year's IT internal audit survey, twice as many respondents report skills in advanced analytics and automation, with more modest increases in program management, cloud computing and security skills.

Figure 5: Technology audit skills composition

General IT controls 94% 6% Data privacy 80% 20% Cyber security 75% 25% Infrastructure and network architecture 72% 28% Data analytics and automation 30% 70% ITACS (Automated business controls) 69% 31% Tech ERP controls (SAP, Oracle, etc.) 59% 41% Cloud security 53% 47% Agile coaches and program management 49% 51% Devops 45% 55% Artificial Intelligence (AI) and Machine Learning (ML) 89% 11% Currently skilled ■ Will Invest in near future



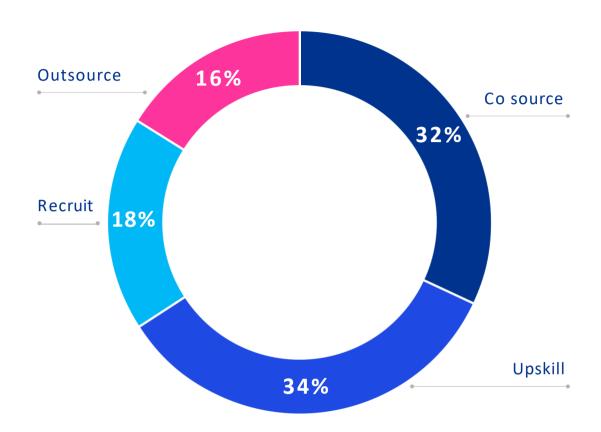


Bridging the capability gap

As the lines between the business and technology audits continue to blur, and integrated audits become more common, all auditors should upskill their technology capabilities. When working in a single organization, however, internal auditors tend to acquire deep organizational knowledge but often only limited technical knowledge and may lack a broader industry or cross-industry overview.

When asked how they plan to address skillset gaps, the respondents' most common answer by far is a combination of upskilling and co-sourcing. Recruiting full-time specialists in specific technologies may not always be cost-effective, as these (relatively highly paid) individuals may only be required for certain projects, which could leave them underutilized for some of the time.

Figure 6: What are you doing to address the skillgap?





Internal audit teams must evolve alongside these rapid technological changes. Bridging the skill gap in areas like Al and cloud security is not just a necessity - it's critical for maintaining organizational resilience, especially as these 'emerging' technologies increasingly become commonplace.



Patrick van Hardevelt Head of IT Internal Audit **KPMG** Netherlands





With budgets expected to be tight, internal audit teams could struggle to hire many new full-time employees. This opens the door for more co-sourcing, which brings access to a critical mass of internal auditors, with up-to-the-minute technical skills and extensive exposure to emerging technologies across many audits – something that's hard to develop internally. Co-sourcing also goes hand-in-hand with upskilling, as the providers can offer training as part of their service.

By understanding the organization's technology roadmap, internal audit functions can identify future skills needed and work out how to access these capabilities. Training options include vendors and knowledge-sharing communities – as well as co-sourcing partners, who can concurrently carry out 'heavy lifting' on the audit execution and help to train in-house teams to become more independent. Learning platforms can also share knowledge and reduce dependency on a few skilled individuals. One essential internal audit skill is report and document writing, which could be enhanced significantly by the use of technologies such as GenAI, reducing re-work and shortening learning curves for auditors.



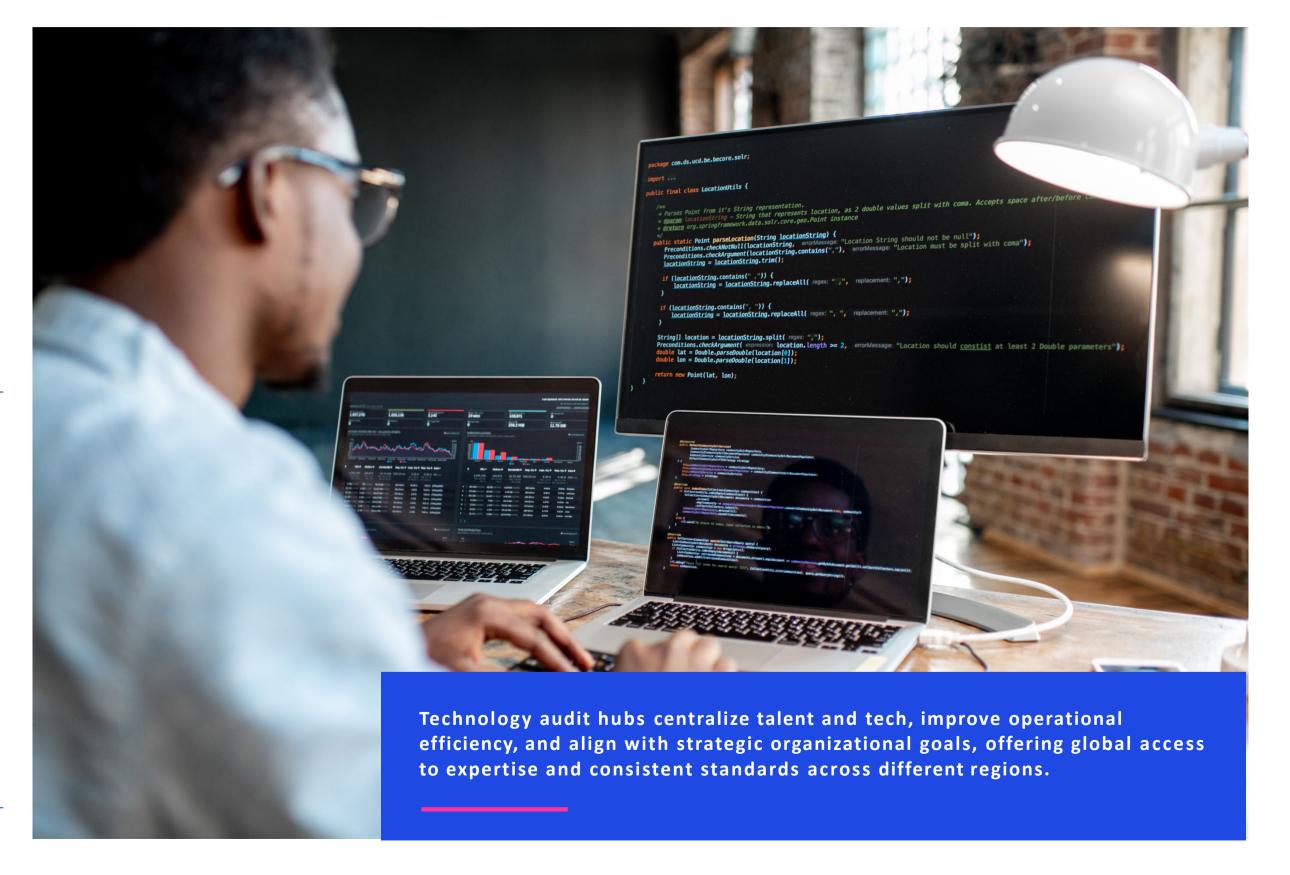
It's a challenge to keep the internal audit team up to speed with every new technological development. Employing technical specialists with very specific skills may not be cost-effective, as they could be redundant for some periods. A hybrid mix of in-house, outsourced and co-sourced skills is a possible option, as larger external partners can acquire a critical mass of capabilities through their global scale.



Laurent Gobbi Global Technology Risk Leader **KPMG** International



In KPMG's Repowering technology audit report, we discussed the exciting potential of technology audit hubs, which are transforming traditional audit functions. They are adaptable to changing business conditions and emerging risks, thereby promoting proactive risk management. Moreover, their governance structure enables better communication and integrated assurance – crucial for decision-making. With feedback loops and a culture of continuous improvement, technology audit hubs have become strategic levers enhancing the efficiency and quality of internal audit functions.

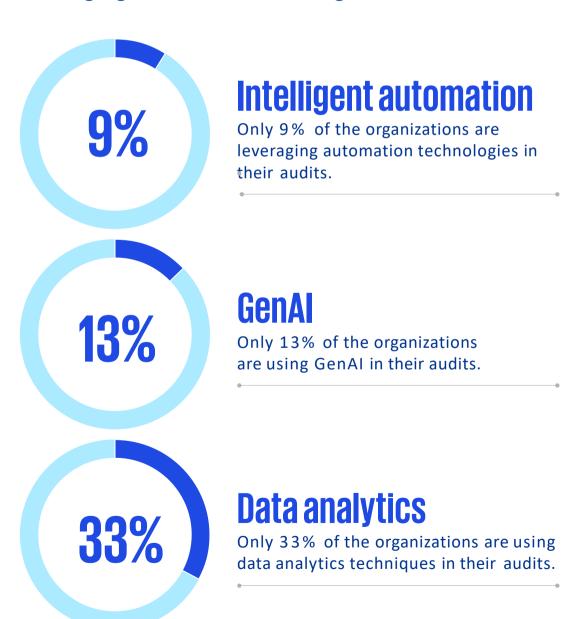




Embracing new technologies to transform IT internal audit

Despite rising technology audit budgets, efficiency remains a big priority, placing considerable pressure on raising productivity. New technologies offer a route to increased efficiency, by enhancing audits and generating quality reports and working papers. The most commonly used tools are for data analytics and visualization (33 percent use these in at least half of their audits). Intelligent automation and GenAI feature in relatively few audits – which offers plenty of room for improvement (see Figure 7).

Figure 7: What percentage of audits are you leveraging the below technologies?



In adopting new technologies, internal audit teams should be disrupting from within – no easy feat when they're busy planning and carrying out audits. Additionally, there is the challenge of getting access to the right data to feed these various tools, with privacy regulations potentially getting in the way. Al presents a particular problem in that it's already 'baked into' many products, as well as being used independently by employees.

Internal audit teams can benefit immensely from new technologies, but they need solid use cases that demonstrate a positive return on investment – as well as the knowhow to get the most out of the tools at their disposal. The business case is not as clear as one may think, when you consider the costs of licensing the tools, co-sourcing support and training staff on how to use them.

Figure 8: The potential benefits of GenAI for internal audit:

Discovery and research, document analysis
Automating complex solutions and processes to ensure compliance with a regulatory standard / industry best practices
Discovering trends and gaining insights from data through consolidation of data
Anomaly detection including behavioral analysis to identify deviations
Automated regression testing, simulation of specific scenarios to identify vulnerabilities in the system
Improve user interactions through enhanced chat and search experiences
Less redundancy by automating repetitive tasks in the daily audit workflow
Greater efficiency by analyzing enormous amounts of input data

Enabling processing and converting complex information (such as configuration files / code repositories) into human readable formats

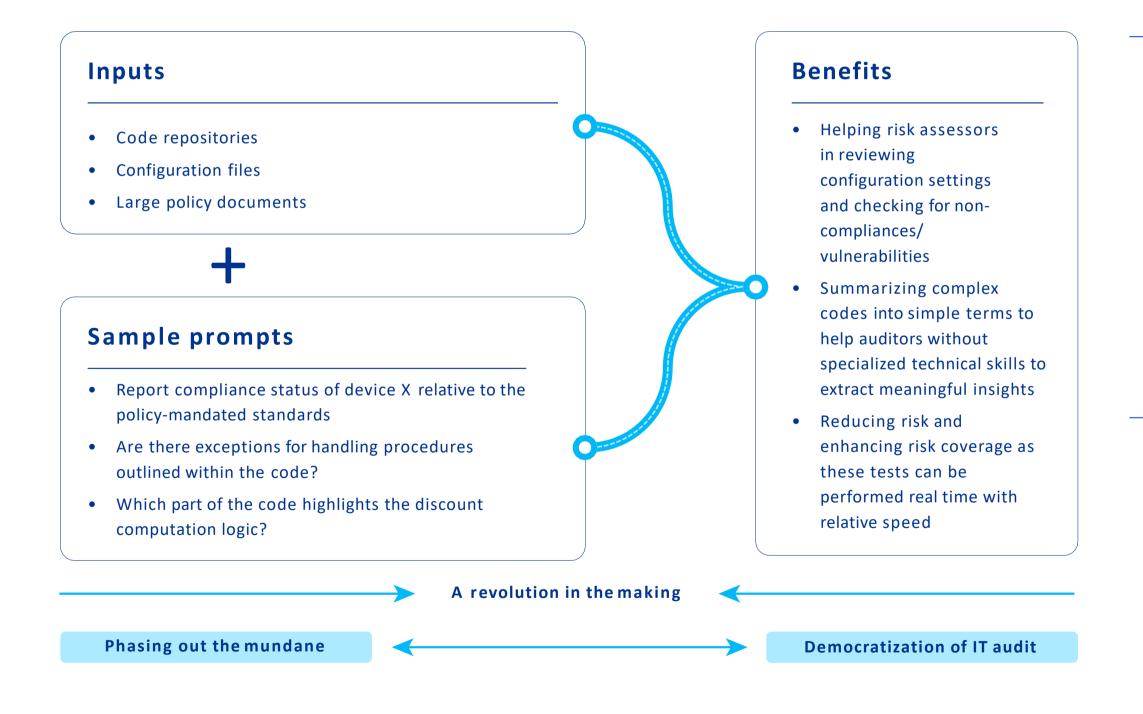


Generative AI potential in IT internal audit

To get the most out of this exciting technology, IT internal audit should define clear use cases and outcomes.

In Figure 9 below, we show how GenAI can help internal auditors review large documents faster, enhance user interactions via chatbots and better search capabilities, identify anomalies and vulnerabilities, and automate complex processes to ensure they comply with regulatory standards. All of these tests can be performed in real time at high speed.

Figure 9: Application of GenAI in testing technology controls





There are a lot of potential new technologies for transforming IT internal audit processes. While the initial investment may seem substantial, considering licensing, co-sourcing support, and training, the long-term benefits of increased efficiency and quality reporting can't be overlooked. It's clear that the adoption of these technologies, is not just about purchasing new tools, but also about disrupting from within and changing our approach to audits.



Richard Knight US Technology Internal Audit Solutions Leader and Principal KPMG US



03 Technology audit maturity



Climbing the technology audit maturity pyramid

As businesses become more technology-centric, IT internal audit teams need to understand how ready they are for the associated risks and opportunities – and how they can develop the required skills. We observe three stages on the technology audit maturity ladder (Figure 10).

A maturity assessment of organizations participating in our survey placed 30 percent at 'Foundational' level, 58 percent at 'Emerging' level, and just 12 percent at 'Trendsetter' level, indicating considerable opportunities for improvement (Figure 11).

Figure 10: The technology audit maturity ladder



- Small internal audit team with minimal or no technology audit skills
- Limited and reactive audit scope
- Workforce skilled in traditional areas of IT automated controls and IT general controls



- Holistic audit scope
- Small degree of engagement exists between business functions, enterprise-wide audit teams and global stakeholders
- Integrated technology audit teams working alongside business auditors
- Embedded data analytics and automation teams supporting repeatable technology audits





- Dynamic scope of audit priorities that align with organizational objectives
- Dynamic risk assessment and enhanced audit coverage
- Technology enabled internal audits
- Sustainable and well-defined audit practices
- Continuous monitoring and auditing mechanisms in place to supplement traditional audit techniques
- Continuous risk and controls monitoring
- Workforce skilled in diverse technology audits ranging from traditional to emerging technology audit areas
- Internal audit recognized as a strategic partner to the business

Figure 11: Maturity model

Trendsetter

Emerging

Foundational

30%

Foundational



Emerging



Trendsetter



The role of IT internal audit is not just becoming increasingly critical, but is at the very heart of the rapidly evolving digital landscape. The challenges posed by cyber security, cloud, GenAI, data privacy, and blockchain are not mere hurdles, but opportunities for innovation and transformation. The need for robust IT governance, compliance and risk management is not just urgent, but paramount to the survival and growth of organizations in this digital age.

The findings from this year's report do not merely suggest but indeed underscore the pivotal role of IT internal audit in driving transformation, strengthening risk management frameworks, and fostering innovation to improve organizational resilience. For instance, the fact that only 21 percent of IT internal audit teams are involved in ESG assessments or readiness is not just a statistic, but a call to action for the audit community to step up and embrace the challenge.

The fast pace of technological innovation demands an adaptable internal audit function where team members are confident in addressing changing risks - and in using technology to improve performance, via digitization, process optimization, innovative work methodologies and stakeholder engagement. The role of internal audit in enabling the swift, safe and ethical adoption of GenAI is not just a responsibility, but a catalyst for change (see Figure 12). Internal audit has an opportunity to achieve continuous, real-time auditing enhanced by visualization, to become an integral part of leadership decision-making.

The maturity assessment of organizations participating in the survey is not just a reflection of the current state, but a roadmap for the future.

Figure 12: How IA is adapting to innovation and risks

Adapting to a dynamic risk universe

proactive risk

management.



The fact that 30 percent are at 'Foundational' level, 58 percent at 'Emerging' level and just 12 percent at 'Trendsetter' level should not be regarded as a cause for concern, but rather as a testament to the immense opportunities for improvement and growth that lie ahead.

In the face of these challenges and opportunities, the question is not whether we can afford to invest in IT internal audit, but whether we can afford not to.

KPMG professionals are ready to collaborate with you in navigating this transformative landscape. Our expertise in IT governance, risk management, compliance and innovative technologies such as GenAI and blockchain, uniquely positions us to help your organization turn challenges into opportunities. We can support you in enhancing your cyber security measures, ensuring data privacy, and driving ESG initiatives, all while strengthening your overall IT internal audit function.

Explore how KPMG can help you build a robust and future-proof IT internal audit strategy. Together, KPMG can help your organization survive and thrive in the digital age.



collaboration.

The technology audit maturity ladder highlights a critical gap — while many organizations are advancing, few are fully leveraging tech-enabled audits. This is where the future of internal audit lies, as a strategic business partner driving value.



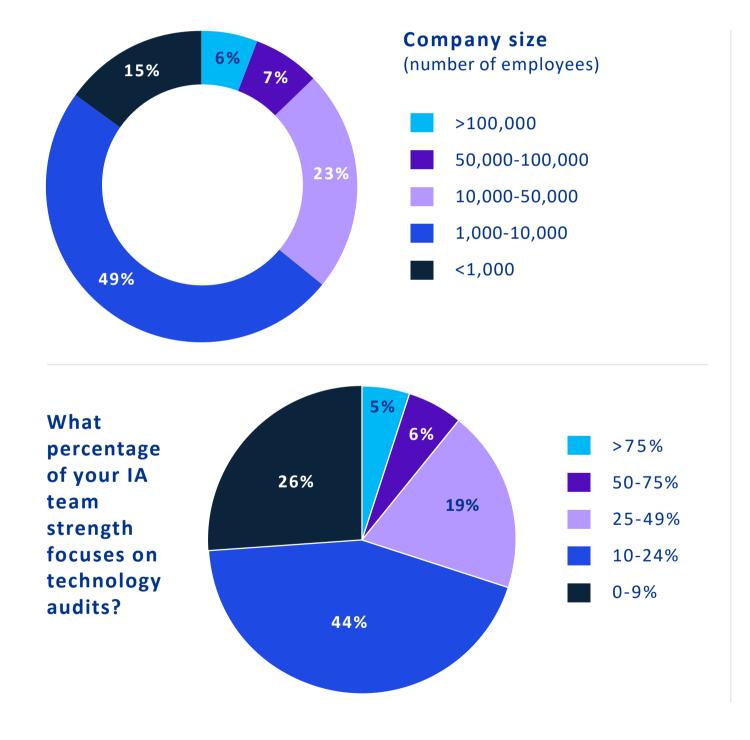
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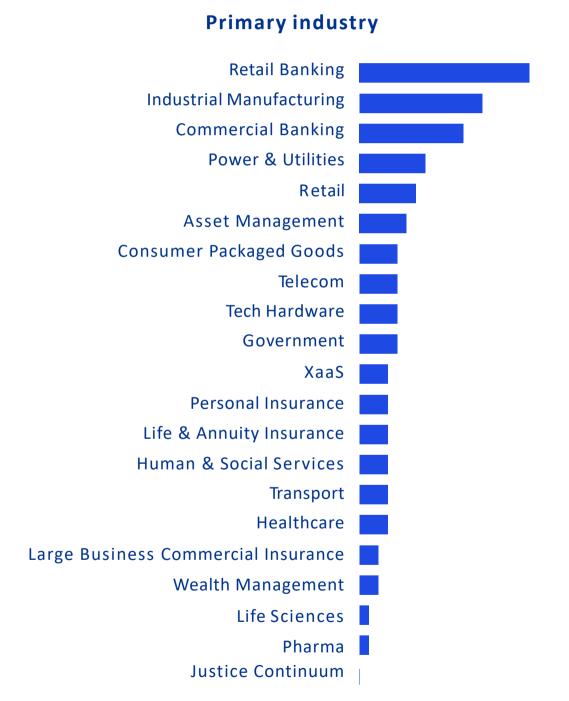


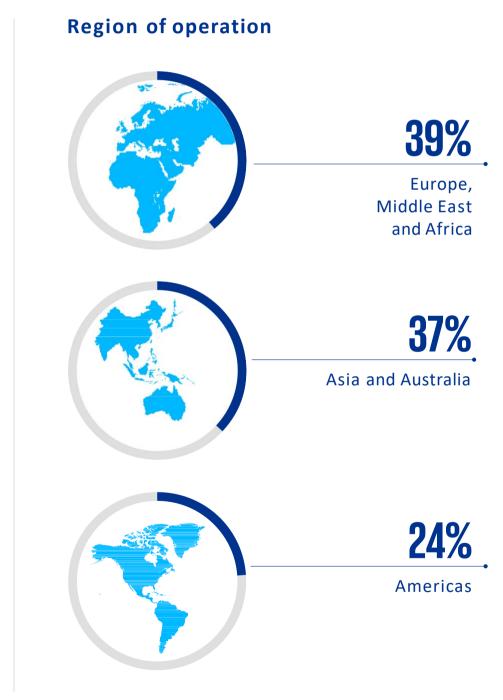


Study methodology

The Global IT internal audit survey 2024 features the responses from senior executives from diverse industries and locations.









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How this connects to what we do

In today's dynamic business landscape, the significance of data as the driving force behind organizational operations cannot be overstated. Our reliance on AI and other emerging technologies underscores the critical need for high-quality data to derive insights that fuel innovation, efficiency, and regulatory compliance. We recognize the central role of internal audit teams in ensuring data quality, integrity, and privacy standards are met, thereby facilitating ongoing digital transformation efforts.

At KPMG, our internal audit professionals are committed to addressing threats to organizational integrity. From bolstering controls and ensuring regulatory compliance to conducting meticulous investigations and developing integrated solutions, our diverse team stands ready to safeguard your organization's reputation and financial interests. Anchored in our efforts is the steadfast commitment to cultivating trust — a cornerstone of sustainable success in today's complex business environment.

Learn more at: kpmg.com/risk

KPMG digital transformation suite Transformation Journey

Rebuild your business, end to end, around

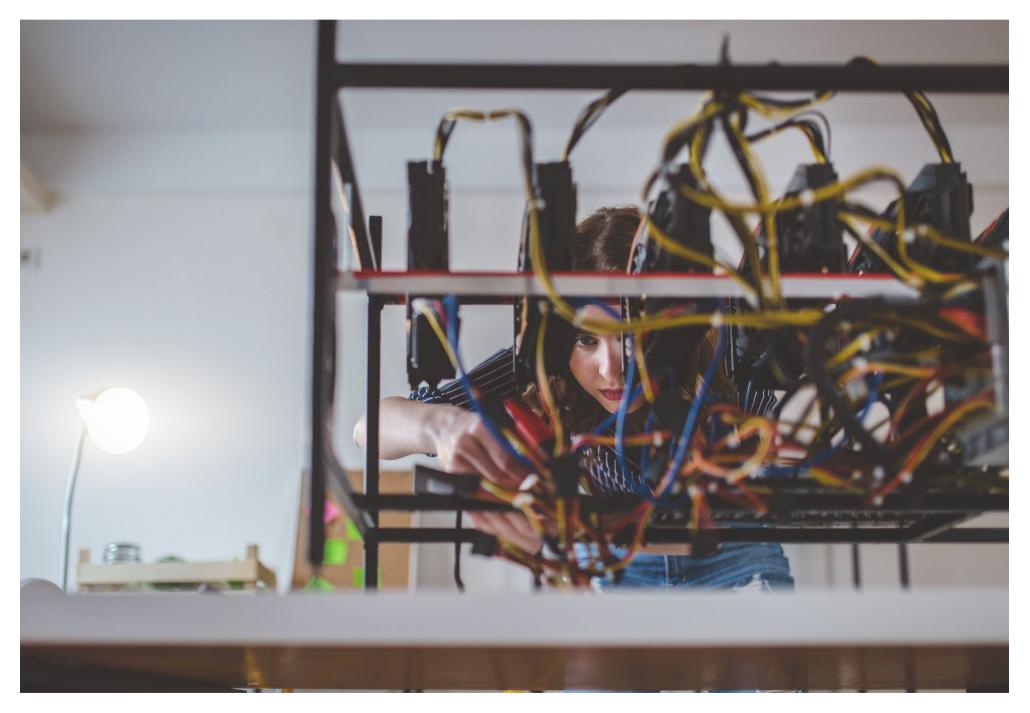
Powered Drive outcomedriven functional transformation.

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KPMG firms' suite of business transformation technology solutions can help you engineer a different future — where new opportunities are designed to create and protect value.





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