

Technology, Innovation and Transformation in internal audit

10 October 2024

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Ask a question

	Q5A	
You asked: What happens whe	n I raise my hand?	38-03
Molly Parker and I can take you off	swered: Fot mute,	18:04
flease input your qu	estion	

To ask a question

Click on the **Q&A** button in the bottom toolbar to open the submit question prompt.

Type your question and click send

NOTE: If you wish to ask your question anonymously check the **send anonymously** box shown on the illustration.



Did you know?

From 1 November 2023, ICAEW's revised Continuing Professional Development (CPD) Regulations brought in new CPD requirements, including a minimum number of hours and an ethics requirement.

This webinar could contribute to up to 1 hour of verifiable CPD, so long as you can demonstrate that the content is relevant to your role.

Find out more about how these changes affect you at icaew.com/cpdchanges.

Today's presenters



Carolyn Clarke BRAVE.



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Agenda

- Innovation and the role of Internal Audit
- Technology-enabled innovation
- Responding to the challenges and addressing emerging risks
- Technology, tools and AI in Internal Audit



Innovation and the role of Internal Audit



What is innovation?

- Enabling and empowering risk taking – within parameters
- Business innovation and Internal Audit innovation – working seamlessly together



Code of Practice for Internal Audit 2024

- Para 7: Prioritise emerging risks in planning
- Para 8: Scope must include emerging risks
- Para 8a: Focus on priorities impacting the business model
- > Para 8e: Key corporate events include significant business process changes
- Para 8j: Internal audit must include in plan technology risk and AI
- Para 28: Ensure the function has access to appropriate tools and technology

Technology-enabled innovation.

A business perspective.



Conflicting constraints: classic project management.





Balanced priorities: the key to enduring transformation.



Balanced priorities: innovation vs. risk



Balanced priorities: innovation vs. operational efficiency



Balanced priorities: risk vs. operational efficiency.



Balanced priorities: Netflix transformation.



Internal Audit can support balanced priorities.





Assurance over Technology & Innovation



Flexibility in assurance approach, including:

• Business Monitoring



• Real-Time Assurance



• Programme/Change Audits

Considerations

- Timely and relevant speed of assurance more important
- Promote "Eyes-Open" risk taking
- Short shelf-life
- Choosing right time for raising issues and using ratings

Rethink Risk

AI in Internal Audit





Today's Agenda



1. Overview of AI

2. Trends in AI Adoption

3. Risks & Opportunities for Internal Audit



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Al is...

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Artificial Intelligence (AI)

Computer systems designed to simulate human intelligence, perception and processes.

04 Machine Learning (ML)

A subfield of AI focused on the use of data and algorithms in machines to imitate the way that humans learn, gradually improving its accuracy.

Deep Learning (DL) 03

An ML technique that imitates the way humans gain certain types of knowledge, uses statistics and predictive modeling to process data and make decisions.

Generative AI 02

Algorithms that use prompts or existing data to create new content - e.g. written (text, code), visual (images, videos), auditory.

Large Language Models (LLMs) 01

A subset of Generative AI which is trained on high volume data-sets to generate, summarise and translate human-like text and other multimedia content.



Deep learning models are trained on massive volumes of input data.



Human prompts in natural language are then used to query the generative AI models - taking any prompt/question without specific training.





New human-like content is created in response to the prompts – based on predictions from the GPT model.

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•• Modes of adoption: the use, buy or build consideration

There are five potential modes of adoption; from public models, embedded and productised solutions to highly bespoke models



•• Many businesses are keen to get going, but there are risks

Risk Averse	Keen to get going	Thinking big picture
Focusing on the governance, responsibility and the potential of it going wrong	Picking a function or a targeted use case and mobilising around that Most UK orgs are here Risk: Increased tech debt, siloed solutions, exponential costs Worst case: lack of value focus results in bad supply side choices and getting left behind	Recognising the potential of this conversation as a moment in time to reinvent the business model, and thinking enterprise and technology wide

Artificial intelligence – risks and opportunities

Key industry trends we are seeing from our **<u>Global CEO Survey</u>** are as follows:

Gen Al	Al Regulation	Responsible AI	دون المعالم معالم
70%	1 August 2024	Ethics	SM&CR
of CEOs said GenAl will significantly change their business in the next 3 years ^[1] .	EU AI Act came into force. Many emerging AI use cases may now be subject to additional governance requirements.	Use of AI within organisations introduces ethical challenges. Furthermore, AI-related incidents attract negative media coverage which highlights public concern.	Within the Financial Services sector, the Senior Managers & Certification Regime stresses Senior Management's
			accountability, including AI use. Other organisations should take note and implement policies, processes, and controls, owned by accountable individuals, so that their use of AI stands up to



Al in Internal Audit PwC scrutiny.

Artificial intelligence – risks and opportunities

What's on the risk agenda?

Potential threats and risks associated with GenAl

While enabling new opportunities, the ever-growing capabilities and impact of AI introduces and exacerbates a number of risks that need to be managed:



Transparency

A lack of transparency around how and when Al is used can lead to lack of accountability and customer mistrust.



Hallucination

Al models could 'make up' information which is plausible but incorrect.



Copyright and intellectual property

GenAl models which are trained on copyright data may pose liability risks.

Misinformation

Most GenAl solutions are unaware of, and will exclude, events, cases or developments that postdate its training data.

Discrimination

If AI models can 'learn' discrimination and if this is based on protected characteristics, it could pose a significant regulatory and/or reputational risk.



Accountability

Many organisations lack clarity around roles and responsibilities to manage GenAl risks. Further, the ease of access to GenAl solutions, increases the risk of misuse – whether intended or accidental.



Data protection and security

Data leakage risks can be heightened if GenAl tools are granted inappropriate access.



Cyber security

Al could introduce new threat vectors, such as prompt injection attacks.



Misuse

GenAl could be used for malicious purposes, which could result in misalignment against the intended/ approved purposes.

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Artificial intelligence – risks and opportunities

What does this mean for Internal Audit?

Examples of key elements for Internal Audit to consider include:



Artificial intelligence - transforming Internal Audit with AI



What does this mean for Internal Audit? (continued)

Al has the potential to revolutionise Internal Audit functions – transforming capabilities, providing opportunities for optimisation of resources and better insight gathering through more detailed analysis. Here are some examples and key benefits of Al use cases that are changing the way organisations conduct Internal Audit.

Al enabled control testing

The capability of AI to process large volumes of unstructured data can be leveraged in controls evaluation and testing to recognise patterns and propose findings. AI is capable of:

- Reviewing documents, emails and summarising evidence submitted,
- Identifying gaps in data,
- Generating test scripts for remediation of identified issues, and
- Evaluating large control databases to identify duplicate controls and incomplete controls description.

Gen Al Internal Audit planning and support

GenAl models can help design Internal Audit plans and provide support on audit engagements, drawing from Internal Audit methodologies, web searches for relevant risk assessments and historic annual reports. Use cases include:

- · Automating risk assessments,
 - Developing audit plans with tailored domains and risk theming, and

 Drafting audit scope and announcement memorandums (or Terms of Reference).

Al enabled

stakeholder engagement

GenAl solutions can enable more effective stakeholder engagement using tools such as Microsoft Copilot, which can improve productivity through:

- Drafting relevant stakeholder questions,
- Transcribing meetings and generating summaries, and
- Identifying next steps based on stakeholder conversations.

Continuous monitoring

Al tools can be used to continuously monitor systems and processes to automatically flag risks and provide an audit trail for review. Examples of continuous monitoring include:

- Identifying of anomalies and potentially fraudulent transactions,
- Automated monitoring to ensure compliance with policies and regulation, and
- Embedding predictive analytics for forecasts and ongoing risk assessments.

Audit practice and quality assurance support

Al can significantly enhance audit quality assurance and enable cost efficiency. Some examples are:

- Using GenAl to review audit reports and completed files to identify quality-related issues, and
- Incorporating interactive chatbots and virtual assistance to provide real time support to auditors on methodologies and audit standards.

Key benefits:

Reduce human error in data analysis and reporting

Improve accuracy of data analysis and verification against regulations Increase efficiency and cost saving through process automation

Enable ongoing monitoring and real-time risk detection

Enable ongoing quality and continuous improvement

The key to success with GenAI is to keep exploring...



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Questions?

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