



## Al in Audit: Transforming assurance in a technology-enabled landscape

#### **Sarah Butler**

Head of Solutions - APAC Global Solutions Lead - AiDA

- • •
- 2024-07-25

- ••••
- . .

## Agenda

- Al recap
- GenAl in the news
- Current Al usage in audit
- Al's value proposition in audits
  - Streamlining audit processes
  - Future possibilities
- Al ethical considerations & mitigations

. . . . . .

- Future proofing for firm & staff
- Caseware sneak peak...
- Questions

. .

. . .



#### "Artificial Intelligence (AI) is the simulation of human intelligence processes by machines, especially

computer systems, enabling them to perform tasks such as learning, reasoning, problem-solving, & decision-

making " ChatGPT

#### Key aspects of AI:

• Learning

- Reasoning
- Self-correction

- Problem solving
- Perception
- Language understanding

## **GenAl in the News**

- GenAl startups received equity funding of over \$14 billion across 86 deals, just in the first half of 2023
  - In all of 2022, this was \$2.5 billion
- Expected total GenAI (and related spend) is expected to reach \$143 billion in 2027 with a growth rate of 73.3%
- OpenAI/Microsoft (ChatGPT) partnership 49% stake
- Monetary Authority of Singapore (MAS) commit an additional S\$100 million to support financial institutions in building capabilities & innovation in AI technologies

Sources:

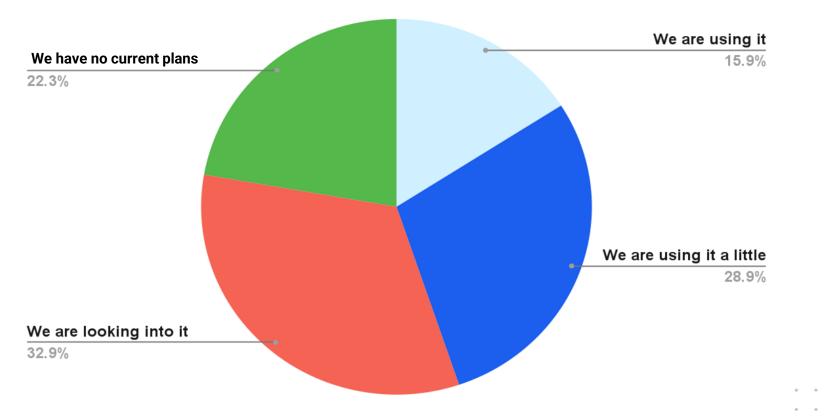
CB Insights, August 2, 2023

IDC Forecasts Spending on GenAl Solutions Will Reach \$143 Billion in 2027 with a Five-Year Compound Annual Growth Rate of 73.3%, 16 October 16 2023 MAS Commits up to S\$100 Million to Support Quantum and Artificial Intelligence Capabilities in the Financial Sector, 18 July 2024

## **GenAl in the News**

### Caseware's 2024 Accounting Firms Trends Report:

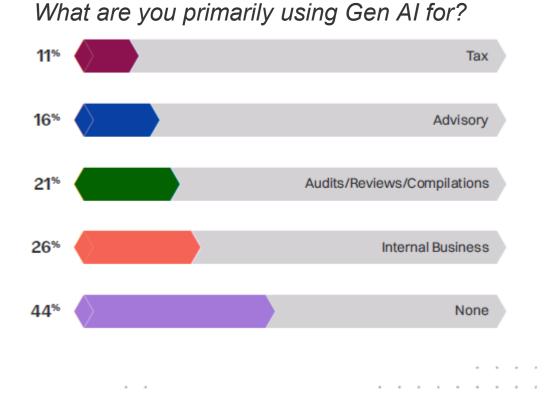
What are your plans to use generative AI technology, like ChatGPT or Bard, in your practice?



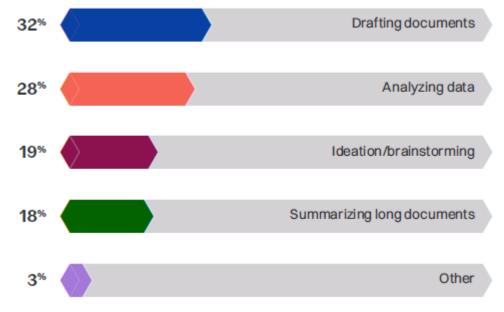
- → Over 60% of respondents are planning to adopt or have already started using GenAl technology
- → A further 16% of respondents state that they are already using it extensively

## **GenAl in the News**

#### Caseware's 2024 Accounting Firms Trends Report:

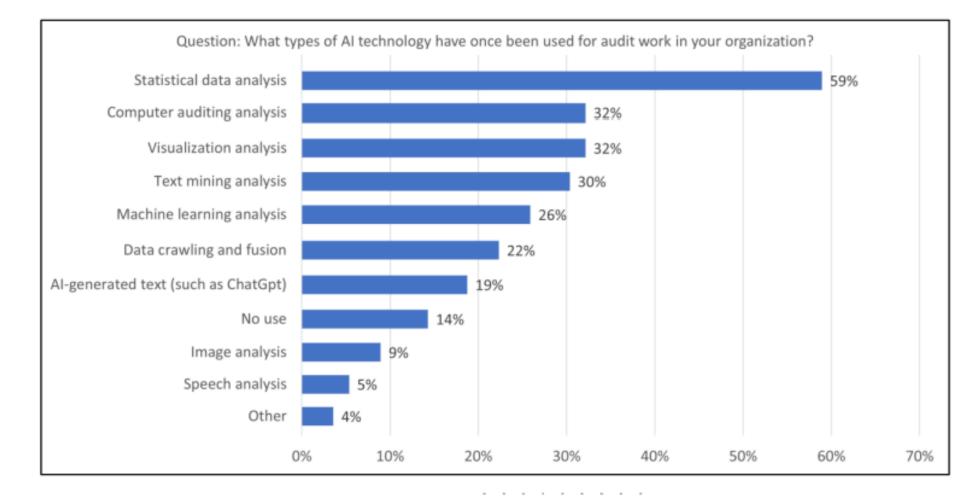


## Which use case offers the highest potential for Gen AI to save you time at work?



. . .

## **Current Al usage in audit**



#### 7 Source: <u>https://www.icaea.net/English/Publication/Abstract/ICAEA\_AI\_Auditing\_Whitepaper\_2024.pdf</u>

#### Enhanced efficiency & productivity

- Automate time-consuming and repetitive tasks
  - Automating document review
  - Data extraction
- Improved accuracy & consistency
  - Standardisation and error reduction
    - Data analysis
    - Pattern recognition



2-220 Retail Lease Agreement 🧨		⊕ () <b>Þ</b>	Caseware AiDA	
	- +       10%         FRETAIL LEASE       between         SUMMERHILL Leasing       as Landlord         and       ACME Coffee         as Tenant       dated as of         December 1, 2023       December 1, 2023		<ul> <li>Here is a summary of the retail lease argoment with bulkes and context from the document:</li> <li>The lease is between Summerhill Leasing as Landlord and Acme Coffee as Franch for premises in the Main St. Mail shopping center.</li> <li>The premises is Suite 117 within the Main St. Mail shopping center.</li> <li>The premises is Suite 117 within the Main St. Mail shopping center.</li> <li>The lease term is 3 years, with the Commencement Date being when the Landlord notifies Franch the transfer of the senter of the lease term is a years, with the Commencement Date being when the Landlord notifies Franch the Landlord notifies Franch the Landlord notifies Team the transfer and ongrass alse, and additional rent for taxes and operating expenses.</li> <li>The centage rent is 6% of Tenan's my as a senter of the second and thid years.</li> <li>As me a question on the landlord not set to taxe and the and of rent includes Tenan's there or a terate taxe and the and of rent set to taxe and the rest to taxe and the second and thid years.</li> <li>Ask me a question on the lease term and the and of rent includes Tenan's there or the cate taxe taxe and the and of rent includes Tenan's there or an estate taxe taxe and the and of rent set taxes and the and the set taxes and taxes and taxes and taxes and taxes and taxes and the set taxes and taxeset taxes and taxes and taxes and taxes and taxes and taxes a</li></ul>	

**(** 

#### Enhanced insights & decision-making

- Advanced data analysis and predictive capabilities
  - Advanced analytics
  - Real-time monitoring
  - Contextual understanding
- Risk assessment & anomaly detection
  - Identify high-risk areas and potential red flags early
    - detect unusual patterns or anomalies in financial data that may indicate errors or fraud





#### Enhanced communication

- Improve communication efficiency and reduce administrative burden
  - Chatbots
  - Virtual assistants
- Quality control and review
  - Enhance accuracy and consistency of audit work, reducing the risk of oversight
    - Review audit workpapers
    - Ensure compliance with audit standards and regulations





## Al's value proposition in audits -Future possibilities

#### Client insights & benchmarking

- Provide context and identify areas for improvement
  - Analyse industry data and benchmarks

### • Predictive analytics

- Assess reasonableness of estimates / forecasts
- Improve quality of audit judgments
  - Using historical data to predict future financial trends and outcomes



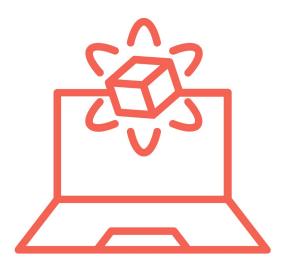
## Al's value proposition in audits -Future possibilities

#### Continuous auditing

- Provide real-time insights and allow continuous monitoring
  - Continuous auditing by constantly analysing data
  - Enables more timely identification of issues

#### • Scenario analysis & simulation

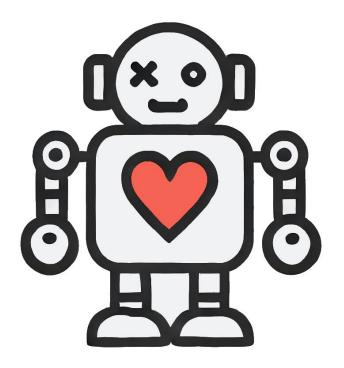
- Assess impact of different financial events
- Provide a deeper understanding of potential risks
  - Create various financial scenarios and simulations based on different assumptions and inputs



# Al ethical considerations & mitigations

#### • Bias & fairness

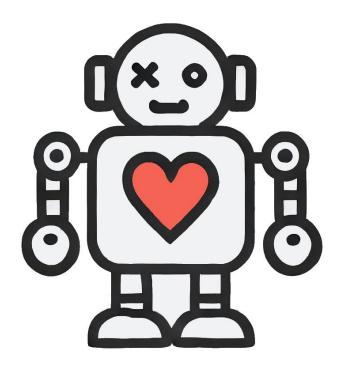
- Regularly audit
- Update training data to remove biases
- Use diverse data sources
- Transparency & explainability
  - Develop AI systems that provide clear explanations for their decisions
  - Implement transparent audit trails
- Accuracy & reliability
  - Continuously validate and test AI systems
  - Combine AI insights with human oversight



# Al ethical considerations & mitigations

#### Accountability

- Establish clear accountability frameworks
- Ensure human oversight in critical decision-making processes
- Data privacy & security
  - Implement robust security measures
  - Comply with data protection regulations
- Professional skepticism
  - Encourage auditors to critically assess AI outputs
  - Maintain a balanced approach between AI insights and traditional auditing methods





## Future proofing you firm & staff

- Embrace the change, ride the wave
- Upskill and re-skill staff in:
  - prompt engineering
  - judgement / professional skepticism
- Adapt business strategies and services

"AI will not replace auditors - Auditors embracing and using AI will replace those who aren't"

## Caseware sneak peak...

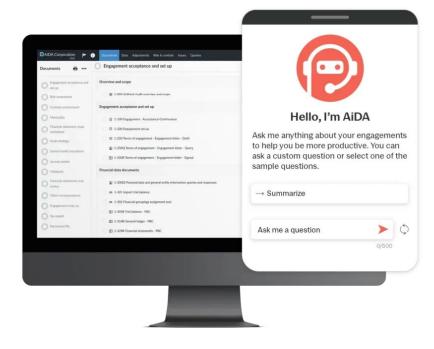
- Cloud based available through:
  - $\circ \quad \text{Cloud apps} \quad$
  - Working Papers (hybrid)
- AiDA is an assistant only
- Fit for purpose

. .

. . . .

17

- Parameters applied
- SOC 2 & ISO 27001 still applies
- Prompts not retained
  - No training of model



. . . . . .

. . . . . . . . . . .



. . . . . . . . . . . . . . . . . .

. . . . . . . . . .

. . . . . . . . . .

. . . . . . . . . .

. . . . . . . . .

• •

. .

## Questions

. . . . . . . . .

. . . .



Thank You!

For more information regarding any of our Caseware solutions, please contact us:

+65 6909 5218

info\_sg@caseware.com

*My contact details:* <u>sarah.butler@caseware.com</u>



• • • •

. . . . . . .

• • • • •

. . . . . . . . .

. . . . . . . . . .

\_\_\_\_

\_\_\_\_\_

•••••••