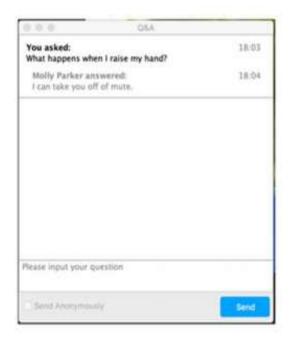


# Using data and technology to drive innovation in internal audit

20 June 2025

# Ask a question



# 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.

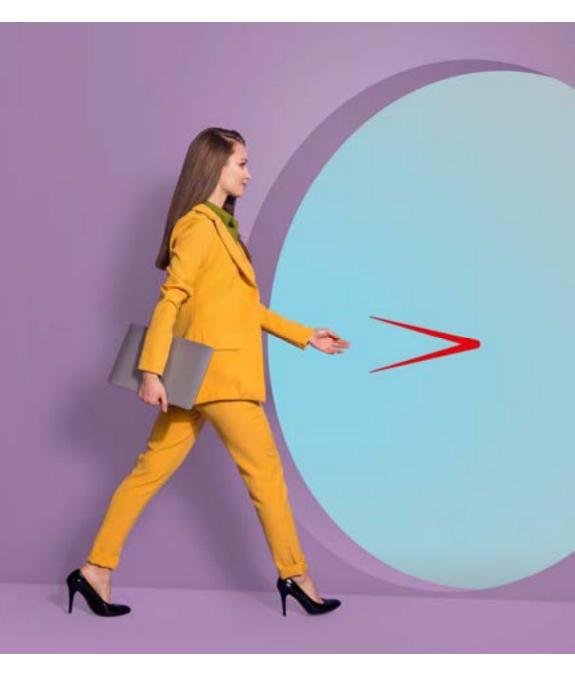


# Did you know?

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 speakers



Carolyn Clarke BRAVE



Riaan Thiart, Prelude Business Solutions



Dr Iain McGregor, GIAA



Aaron Altrock, Wise



Peter Tansley, BBC

# Data, Technology, Innovation.

Carolyn Clarke Founder Brave Within LLP

carolyn.clarke@braveconsultancy.co.uk





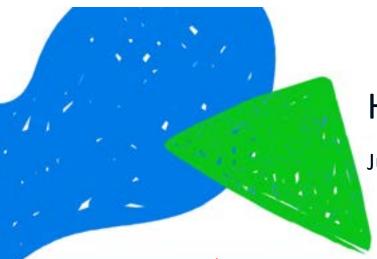
# Data Analytics & Al in IA

Developing an Internal Audit Strategy









# How to create a DA/AI Strategy

Just Ask ChatGPT to write one!

# INTERNAL AUDIT STRAATEGIC PLAN

Vision Position Internal Audit as a forward-looking, technology-enabled assurancee function that enhances stakeholder confidence through advanced date analytics and responsible use of Al.

### Topic 1: Optimising the Use of Data Analytical Techniques

Strategic Objective Establish data analytics as core enabler of audit coverage, insight generation, and risk responsiveness

### KRA 1: Embed Data Analyticies into the Audit Lifecycle

KPI 1.3 % of audits incorporating data analytics techniques

KPI 1.2 Reduction in average time to complete fieldwork du

### KRA 2: Enhance Auditor Copability and Confidence in Data Tosis

KPI 2.1 % of audit staff trained and certified in data analytics tools

KPI 2.2 Auditor self-assessment scores on data proficiency

KRA 3: Develop Reusable Analytics Assets and Infrastructure KPI 3.3 Number of reusable analytics scripts/modules in library

KPI 4 Improve Data Quality and Access Across the Function

### Topic 2: Using AI in the Audit Process

Strategic Objective Utilise Al to enhance audit effectiones, efficiency, and insights while maintaining trust, governance, and transparency

### KRA 1: identity and Pilot High-Impact Al Use Cases

KPI 1.1 Number of Al tools/use cases piloted

KPI 1.2 Audit efficiency improvement (nours save perd) from pilots.

### Topic 2: Using Al in the Audit Process

Strategic Objective Utilise Al to enhance, efficieners, efficiency, and insights while maintaining trust, governance, and transparency

KPA 1: Establish Audif-Coverage of Enterprise Al Use

KPI1.1 % critical AI/ML systems mapped and risk-rall--rated

KPI12 % business units with Al coverage in audit universe

### Topic 3: Auditing the Use of Al by the Business

Strategic Objective Provide rebust assurance oversigneemance, risk, and control environment surroulding All use across the enterprise

KPA 1: Establish Audit-Coverage of Enterprise Al Use

KPI 1.1 % critical AI/ML systems mapped and risk-raterated

KPI 1.2 % business units with Ai coverage in audit universe

KRA 3 Review Ethical, Regulatory and Privacy Dimensions of

KPI 3.1 % d Al systems reviewed for GDPR and tairness risks

KPI 4.2 Number of Al audit findings linked to ethical or comptpliance gaps ChatGPT 40 >

Position Internal Audit as a forward-looking, technology-enabled assurance function that enhances stakeholder confidence through advanced data analytics

Topic 1: Optimising the Use of Data Analytical Techniques

er Strategic Objective:

and responsible use of AL

Vision

Establish data analytics as a core enabler of audit coverage, insight generation, and risk responsiveness.

KRA 1: Embed Data Analytics into the Audit Lifecycle

KPI 1.1: % of audits incorporating data analytics techniques KPI 1.2: Reduction in average time to complete fieldwork due to analytics use

\* KRA 2: Enhance Auditor Capability and Confidence in Data Tools

KPI 2.1: % of audit staff trained and ce. 

4 d in data analytics tools KPI 2.2: Auditor self-assessment scores on data proficiency

Ask anything

+ 2

KPI 3.2: % of audit engagements leveraging existing scripts





A Strategy is as much about hearts and minds as it is about technical objectives

# Hearts & Minds

### Vision

Compelling, convincing, exciting

# Technical

# Objectives

SMART Objectives, Outcomes, End-inmind

## Buy-in

Audit Committee, Exco, Team

## **Key Result Areas**

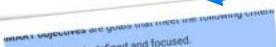
Milestones, Targets, Deliverables

### Communication

Creating the critical mass

### **Key Result Areas**

Leading (are we getting there), Lagging (did we get there)



- Specific: Clearly defined and focused.
- Measurable: Quantifiable and trackable.
- Achievable: Realistic and attainable.
- Relevant: Aligned with broader priorities.
- Time-bound: Set within a specific timeframe.



Did we miss the Data Analytics

Bus?



If you are still developing a Data Analytics Strategy for Internal Audit, you are not alone!

But is it too late? Should you not be running to catch the Al Bus?



**Most Common Barriers:** 



# Use Cases: Data Analytics

- Internal Audit Planning & Risk Assessment
  - Risk-based prioritization
  - Trend Analysis
  - Real time monitoring
  - Predictive modelling

### Fieldwork

- Scoping
- Stratification
- Process mining
- Anomaly detection
- Full population testing
- Continuous Auditing/ Monitoring

### Reporting

- Interactive dashboards
- Visual storytelling
- Quantification of the impact



# Getting on the Al Bus

# Strategic Questions to Ask?

- 1. What are the barriers to using AI in your organisation?
- 2. How can we use AI to the benefit of the internal audit process? (Efficiency / Insight / Foresight)
- 3. Which guardrails will we need to implement?
- 4. What skills will we need and where will we get these?
- 5. How will we audit the business' use of AI?

# Use Cases: Al in IA

Unchartered waters, but here are some thoughts

- · Research for planning audits
- Risk and control drafting (prompt)
- Drafting audit programmes / risk control matrices
- Quality assurance
- Drafting reports
- Visualization of reports
- Checking software code
- Developing DA script
- Developing your IA Strategy!
- Analysis of audit reports for themes / common root causes
- Searching organisational information assets
- Analysis of timesheets







# Al in Internal Audit

Dr Iain McGregor Government Internal Audit Agency

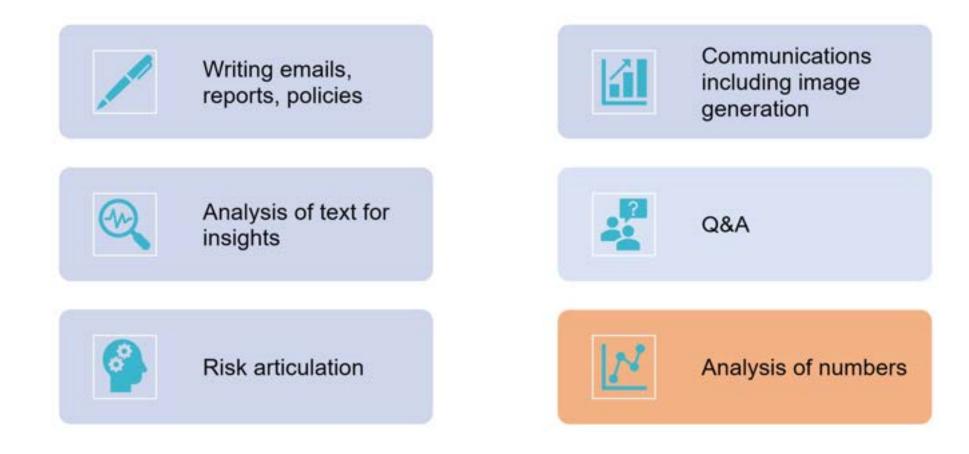




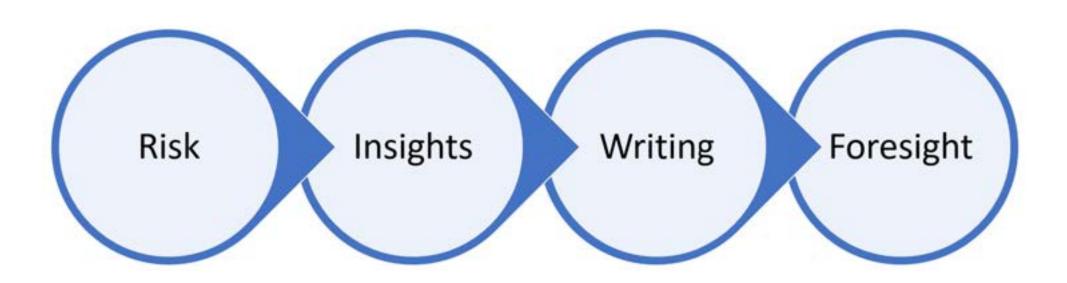
# **Government Internal Audit Agency**

- Internal Audit and Counter Fraud and Investigation
- 500 staff
- 15 of 17 Central Government Departments
- 130 other Government Organisations

# Uses of Al in Internal Audit



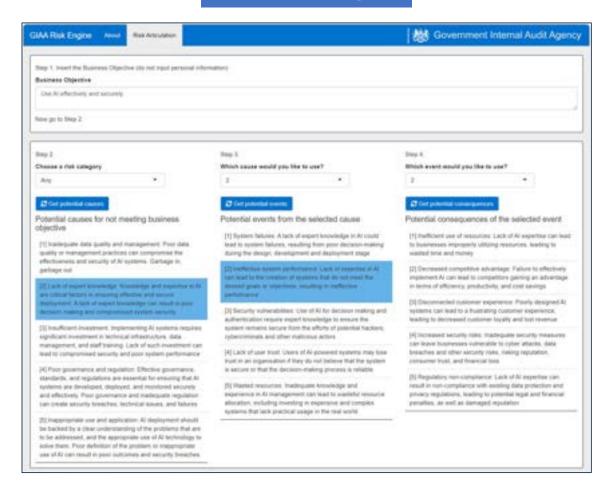
# **GIAA Efficiency Engines**



# **Implementation**

- Security
  - Al hosted in the UK
  - No sharing of data
- Engagement with staff
- Benefits

# **GIAA** Risk Engine





lain.Mcgregor@giaa.gov.uk

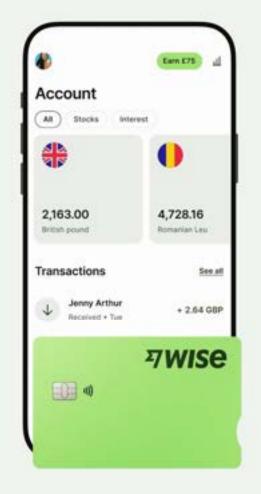
Linkedin: /in/iainjmcgregor



# INNOVATION IN INTERNAL AUDIT IN FINANCIAL SERVICES

OPPORTUNITIES AND CHALLENGES Aaron Altrock, Head of IT Audit









Wise Account Wise Business Wise Platform

Provide independent, objective and timely assurance, insight and advice to Wise's Boards and Leadership Team, enabling 'money without borders' by supporting effective risk management, growth and scalability.

# Financial services are inherently complex in general

# Range of products and services

- Wide range of financial products and services
- Diverse corporate and retail customers
- Global integrations

# **Extensive regulatory landscape**

- Highly regulated
- Varying international and local regulatory requirements
- Ever changing

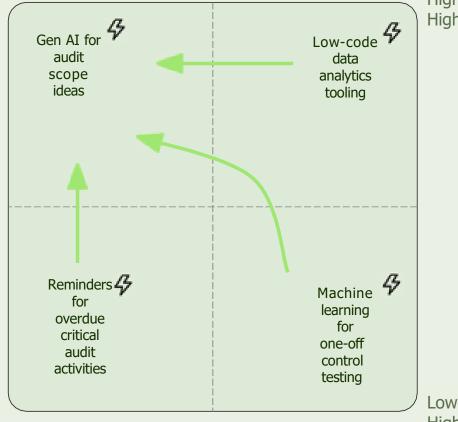
# Highly interconnected

- Wide range of channels
- Increasing scale and volume
- More real-time than ever before

# Not all use cases are equal.

Higher benefit Lower cost

- Unique for each organisation
- Focus on outcomes
- Find newly opportunities to unlock
- Direct and indirect benefits and costs
- Strategic vs tactical



Higher benefit Higher cost

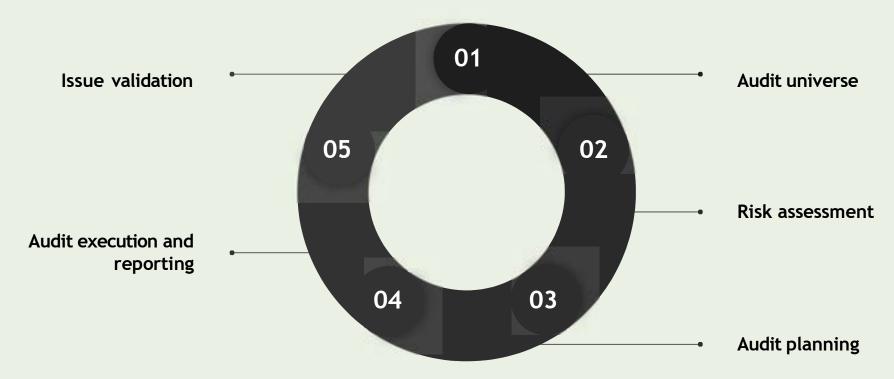
Lower benefit Lower cost Lower benefit Higher cost

# Internal audit-wide

likely across the whole function.

# **Portfolio specific**

**More depth focused:** Benefits to specific audit portfolios.



Challenges to overcome, generally in internal audit.

# Often, the biggest challenges aren't technical ones.

# **People**

- Not empowered → named owners and senior sponsors
- Fear of unknown → clear roadmap and engagement
- Fear of failure → training, support and psychological safety
- Personal impact → focus innovation on user experience and not functions

# **Process**

- Unclear scope → define outcomes and success at the outset
- Delay → agile approach to bring value early iteratively
- Non-compliance → early engagement for clarity and unblock obstacles
- Not fit for purpose → consider integration with current processes in design

# **Technology**

- Poor data → reduce scope vs hold-off and treat first
- Unknown benefit and cost → proof of concepts
- Barrier of entry → collaborate with others to onboard new capabilities

# THANKS

Techniques and tips for internal audit uptake including visualisation

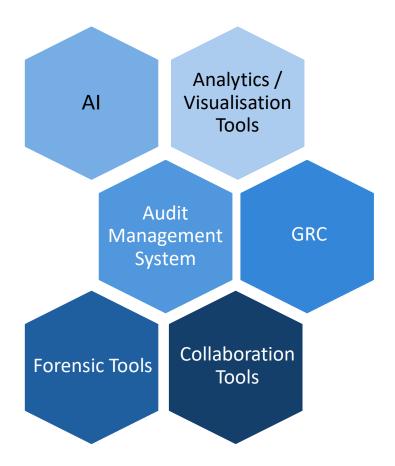
**Peter Tansley** 

**BBC Internal Audit** 



# **BBC Internal Audit**

- Our Technology v the EQA
- Quick update on Al audit approach





# IIA Standard: The chief audit executive must strive to ensure that:

- Internal audit has technology to support the internal audit process.
- Technology requirements and usage are regularly evaluated, and opportunities to improve effectiveness are pursued.
- Appropriate training is implemented for internal auditors in the effective use of technology.
- The IA strategy considers and incorporates technology requirements.

# EQA Opinion: Use of Technology – "Good":

- "There is still potential to adopt more of a 'digital-first' mindset across the Function; which would demonstrate how the team is staying in lockstep with the organisation. This means thinking digital proactively in every stage of the life cycle"
- "....showcasing technology and innovation is important to demonstrate the forward thinking of the function.
  Stakeholders interviewed commented they haven't seen innovation in the way that audits are delivered and reported"
- ....an overdependence on co-source for analytics and forensic work.....

# **Technology Suite**

Al

**Microsoft Co-pilot and Chat GPT.** Access (and training) to a secure version of Co-pilot where content is not added to large language models. Used for all parts of audit cycle, including translation

**Audit Builder** – Al tool using the **Mistral LLM**. Based on prompts the tool will create a generate work programme that can be tailored for BBC. Working to roll out for use from 2025.



**SQL** – We currently utilise a secure server which is running SQL. This is used for reviews requiring analysis of large data sets. Examples have included working capital management, sickness and absence, and editorial reviews.

**Visualisation and Reporting** – continued development of **Tableau** used in conjunction with the output of SQL to visualise review findings.

AI – smaller data sets interpreted using co-pilot/ chat GPT



**Teammate** – Cloud based system implemented since 2022, mandated usage by staff and partners.

Offshoring – Action tracking and routine assurance outsourced to TCS/ Chennai (using Teammate)

Nearshoring – FRC testing and routine assurance to PWC Belfast using Workiva

# **Technology Suite**



**Dropbox** – overdependency and issues around data quality, version control and sharing with partners.

**Egress** – for secure sharing of documents

Multiple collaboration tools, add to control risk

**Teams and Teammate** – now mandated tools

**Canva** – used for reporting, communications etc



**Social and public media scraping** – we use tools to review editorial usage and impartiality risk, often in conjunction with Big 4

**Axiom** - email interrogation software, used to support on approved investigations, very easy to use.

**Analytics** – prefer dedicated tools rather than gen AI given sensitivity

GRC

**Exploring options** 





### **Our Involvement**

- Auditing AI has been an established part of our plan since 2020
- Focus was on internally developed ML, procured AI was expensive, and less common, limited end user input.
   Focus on R&D and use case.
- Now cheaper to procure and functionality much more common; Gen AI has accelerated end user challenges
- Shift from central governance and set standards, to controlled usage and adoption.
- Key BBC risk is an editorial one



### **Audit Activity**

- AI Development controls around R&D cases
- Al Procurement risk assessment and concurrence for acquired Al, e.g. for recruitment
- Al Usage editorial tools used by journalists to produce copy or content and verify assertions and data
- Al local development proliferation of Al initiatives, both a control, VfM and opportunity risk.

# **Questions?**