



Modern Internal Audit: Continuous Control Monitoring

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Session Overview

Today's Focus

Session Description

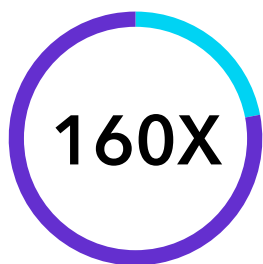
In today's fast-moving risk and regulatory environment, internal audit teams are expected to deliver broader assurance with fewer resources. This session explores how Continuous Control Monitoring (CCM) helps audit functions enhance assurance activities through automation and real-time insights.

Learning Objectives:

- Explain how CCM improves efficiency over manual testing methods
- Identifying cost-saving and coverage-expanding opportunities through audit automation
- Understand how real-time monitoring improves assurance for audit committees and executive leadership
- Learn how AI can be practically applied to support CCM for auditors of all technical skill levels

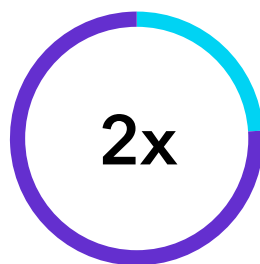
Recent Trends in Data

Where are we now?



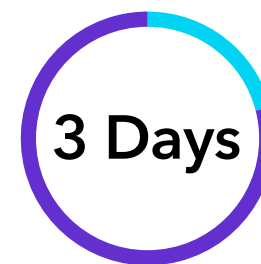
402 Quintillion bytes of data per day

Compared to 2.5 Quintillion bytes in 2019 - that's 160x more bytes of data per day



In 2019, there were **40,000** Google searches performed every second

In 2025, there were **99,000** Google searches performed every second



The amount of energy used to train ChatGPT 4o, could power the city of San Francisco for 3 days

That's just training. Not use.

Pressures Facing Internal Audit 2025

Expanding Risk and Compliance Landscape

— As responsibilities and oversight grows, resources don't



Cyber Security Threats: Ransomware and breaches requiring a stronger relationship with Information Security.



Stakeholder Expectations: Ever increasing - ESG, AI, etc.



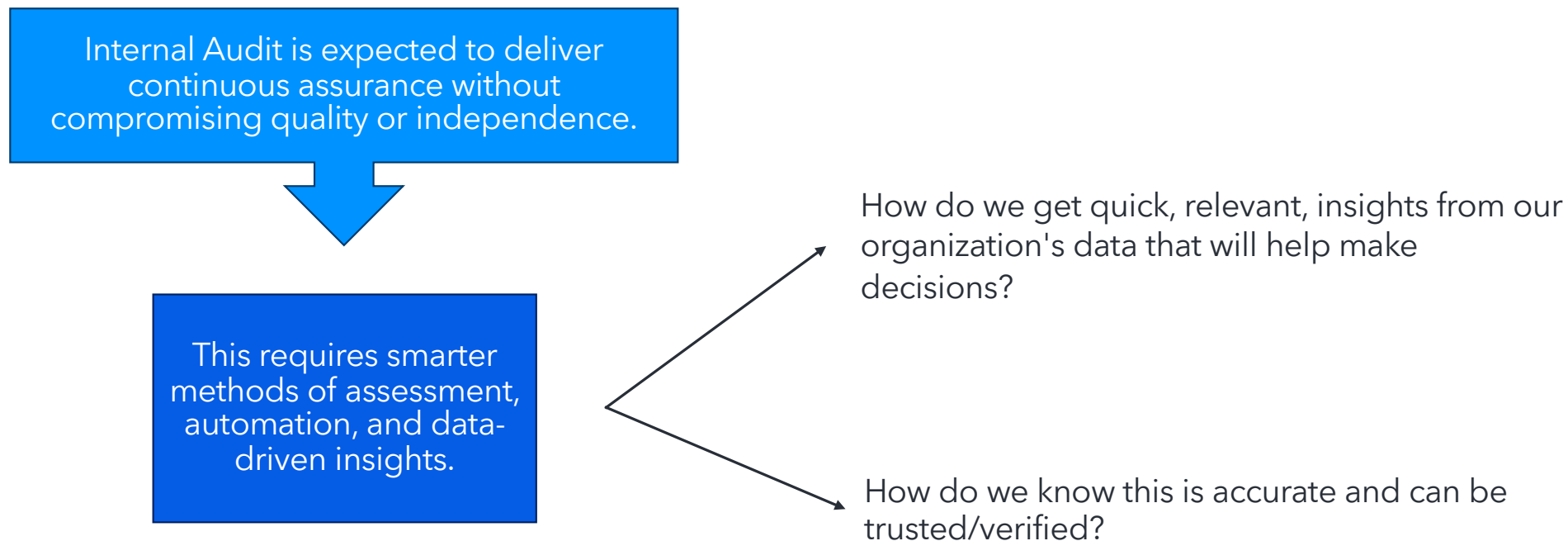
Integration and Outsourcing: Third party relationships becoming standard and common place.



AI: Balancing responsible oversight with increased efficiency

A Need for Faster, More Agile, Responses

The world is changing by the minute



Coverage and Completion

Challenges with audit coverage vs. available resources

Not only is scope increasing, but the skills required to meet modern auditing demands are becoming more technical.

Audit teams are asked to automate where possible, adopting smarter assessment methods, and to do so in an economically challenging environment.

- Almost all facets of business touch software – software and the relevant processes must be assured against
- Budgets are tightening, skill gaps are increasing



Continuous Control Monitoring Confidence through Automation.

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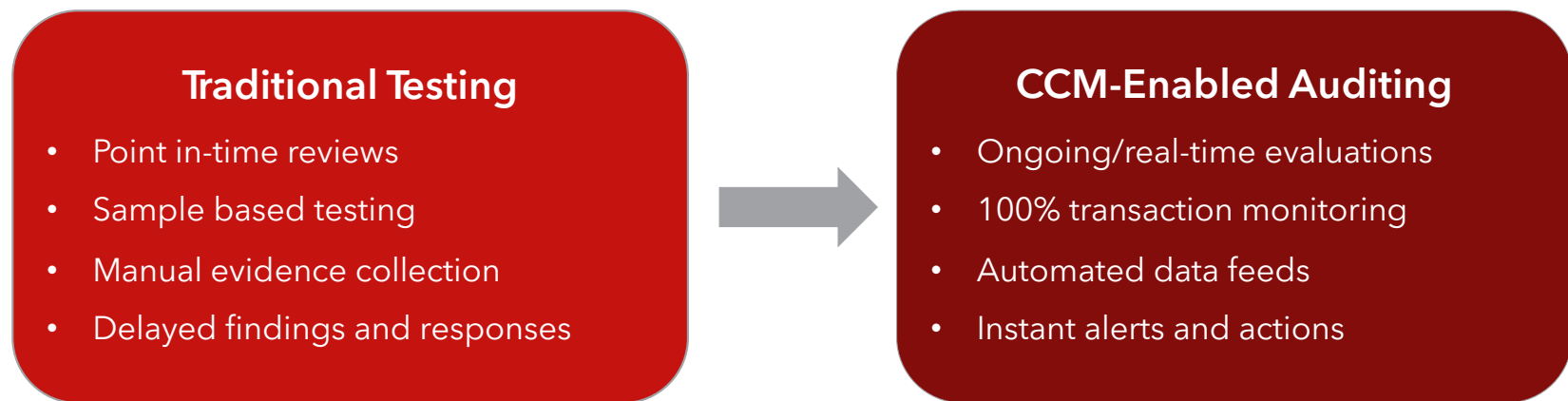
What is Continuous Control Monitoring?

The automated, ongoing evaluation of control effectiveness, supporting continuous assurance and risk mitigation

How can we reduce the manual effort required to test logical, standardized controls within the organization?

How can we deliver more value to the committee and the business without creating more work?

Enhanced Approach to Auditing



Benefits to a Strong CCM Program

While it's obvious that leveraging technology to automate repetitive tasks is important, how can we begin building a case for a strong CCM program internally?

Greater Coverage - Monitor more processes and control areas at a higher frequency

- # of times control tested per year
- % of business process areas with high levels of assurance

Efficiency Gains - Reduce manual test work - increase the scope and availability of the audit team

- # of Audits performed in a year
- % of controls tested within a process or control area



Benefits to a Strong CCM Program

While it's obvious that leveraging technology to automate repetitive tasks is important, how can we begin building a case for a strong CCM program internally?

Timely Mitigation - Detect control failures as they occur and alert the business - remediation can potentially save time and money the sooner it is acted upon

- # of days to close issues/findings
- \$ impact of findings - potential leakage avoided, potential fines averted, etc.







Increased Stakeholder Confidence - Leverage the data into near real-time dashboards for Executives and the Audit Committee



Expanding the Analytics Program

Technical and Non-Technical Focus

Once we understand the why, let's look at the how

-  Establish leaders and champions who can take ownership of the program
-  Evaluate the needs of your business/program
-  Understand what metrics or data points your executive teams care about, and what metrics will directly impact time/dollars saved
-  Leverage the right tools for the appropriate use case (think relevant AI models, analytics tools, workflow bots, etc.)
-  Clearly documented milestones for your first year - how can we prove there is ROI here?
-  Establish an external review team to evaluate the results

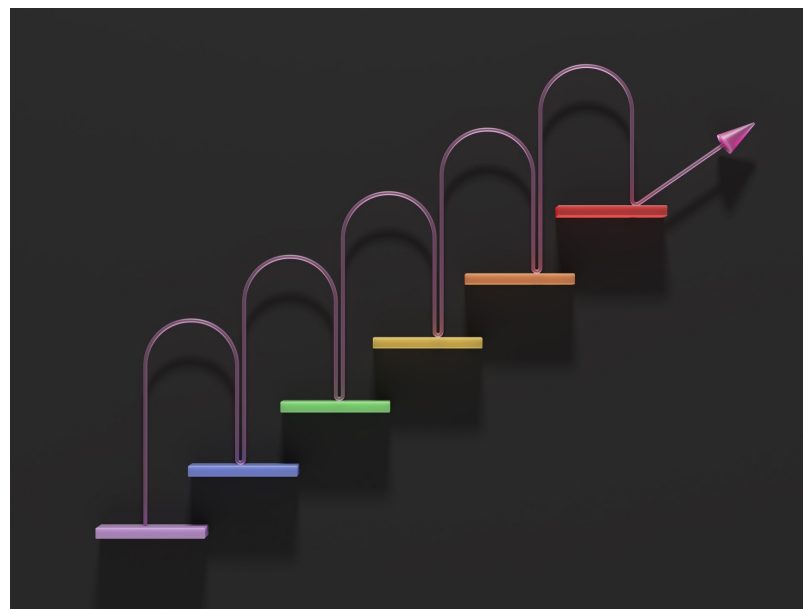
Establishing a Continuous Control Monitoring Program - The How

What our customers tell us works

Laying the Foundation

Select and Define Controls

- Identify 1-3 time-consuming, logical controls (typically IT or Financial related)
- Clearly Document
 - Trigger: Conditions for Control Failure
 - Data Needed: Specific fields and sources
 - Owner: Who's responsible for following up (Auditor and Control Owner)



Establishing a Continuous Control Monitoring Program - The How

Map & Access Data Sources



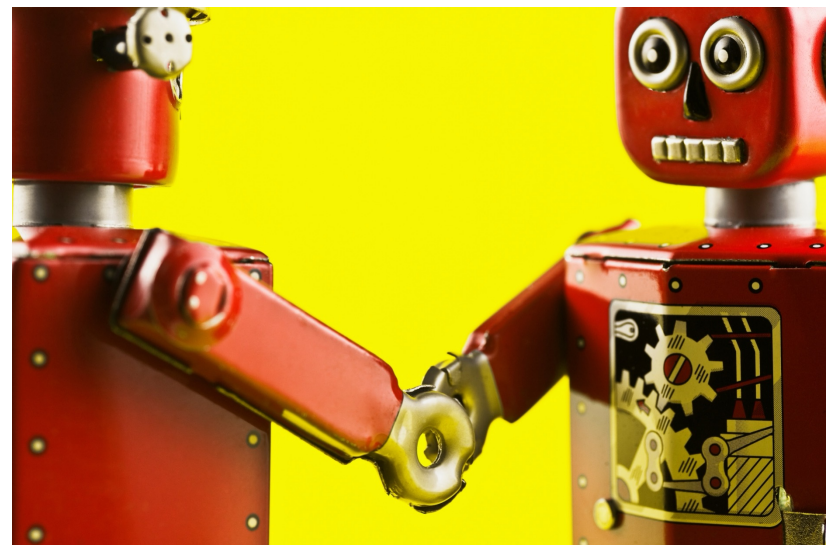
- Identify which systems hold the relevant data you need
 - Eg. HRIS for Employee Data, IAM for Access Rights
- Understand how you can access the data
 - API, SQL, Scheduled Export, Manual Export
- Do you have the authorization/approval from the relevant stakeholders
 - Will this minimally or not impact operations? If so, consider working with stakeholders to establish a mutually agreed upon cadence

Establishing a Continuous Control Monitoring Program - The How

What our customers tell us works

Building, Operating, and Improving

- Build the Logic
 - Define straightforward rules to identify exceptions - don't focus on advanced analytics
- Automation Execution & Alerts
 - Ensure analysis is running on a set schedule
 - Visualize results and alerts to stakeholders through existing channels (email, Slack, Teams) to ensure accountability
- Review and Refine
 - Continuously monitor performance, address issues, and expand controls once the pilot is stable



Confidence Through Continuous Control Monitoring

How automation can enhance regulatory and organizational confidence



Increased Coverage

Reframe the monitoring - a continuous control monitoring program is not about policing the business and stakeholders. It is about:

- Ensuring that business units are protected against a lapse in control effectiveness
- Providing assurance that their business unit will not trigger a regulatory exception or fine
 - Having a CCM program in place ensures that the business is aware of issues before they become severe



Automated Remediation

Taking it beyond the finding. Successful CCM programs involve the business in remediation activities autonomously

- False positive verification and remediation
- Automated evidence gathering for issue close out

Continuous Control Monitoring

In the era of AI

Technology Options: Bespoke vs. Integrated

How AI Delivery Impacts CCM Effectiveness

Bespoke (Single-Purpose)

- Built to solve one specific task (e.g., anomaly detection, control generation)
- Often requires jumping between tools (e.g., ChatGPT, Excel, internal systems)
- Manual handoff of results back into core GRC or ERP systems
- Creates friction, increases risk of data loss or context switching

Integrated (Embedded)

- AI features are natively available in the system where the work happens
- Example: Button to “Generate Control” directly inside CCM workflow
- Eliminates copy-paste workflows and manual re-entry
- Leverages platform’s full data context for better AI outputs
- Streamlines adoption – no new vendor management or compliance risk

Natural Language Queries

Ask complex questions in plain English and get instant, actionable results

Example Use Case:

- An auditor types: "Show me all exceptions to SOX control 312 in Q2"
- AI instantly retrieves relevant results, filters data, and visualizes trends

Benefits:

- Removes need for technical query languages (SQL, ACL syntax)
- Makes analytics accessible to all auditors and compliance staff
- Speeds investigative work and improves coverage



Narrative Summaries

Turn raw control testing results into clear, concise reports in seconds

Example Use Case:

After testing 100% of transactions for a control, AI generates:

- One-paragraph summary of results
- Key issues detected
- Recommended remediation actions

Benefits:

- Saves hours writing audit or compliance reports
- Ensures consistent messaging across reviewers
- Frees up experts to focus on analysis, not drafting



Anomaly Detection

Automatically surface unusual patterns and potential control failures before they escalate

Example Use Case:

Continuous monitoring of expense reports flags entries with:

- Amounts just under approval thresholds
- Unusual vendor patterns
- Duplicate invoice numbers

Benefits:

- AI adapts to patterns and learns what “normal” looks like
- Reduces manual sampling and review time
- Surfaces hidden risks faster than periodic audits



Q&A



Thank you

