COHESITY

UK CYBER RESILIENCE REPORT

Risk-Ready vs. Risk-Exposed: The Cyber Resilience Divide In The UK

NOVEMBER 2025

Everyone talks about detecting and preventing cyberattacks, yet the headlines tell a different story. Prevention and detection alone are no longer enough. Even the most advanced enterprises are suffering crippling disruptions that ripple from IT operations to the boardroom—and beyond.

To understand why, and what separates resilient organisations from those still struggling, Cohesity surveyed 400 IT and Security Operations decision-makers across the United Kingdom. The findings reveal a widening resilience divide between risk-ready organisations that can recover quickly and confidently, and their risk-exposed peers that remain vulnerable to prolonged disruption and downstream financial damage.
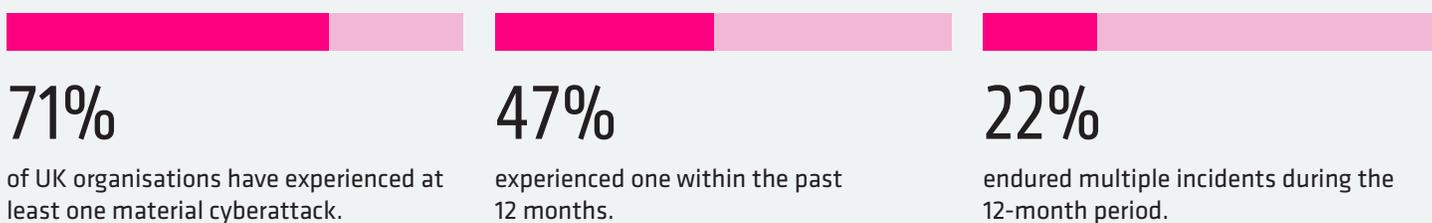
Our research examines the real-world impacts of material cyberattacks, how UK organisations self-assessed their cyber resilience against best practices, and the steps they took to detect, respond to, and recover from these incidents. It also highlights what they learned, and how they're turning to AI and automation to accelerate resilience and close the divide.

MATERIAL CYBERATTACKS:
THE NEW REALITY OF MODERN BUSINESS

Cyber incidents are not created equal. Many organisations manage routine phishing attempts, malware probes, or system outages on a near-daily basis. But material cyberattacks are different. These are the attacks that halt operations, trigger financial losses, damage reputations, and draw scrutiny from boards, auditors, and regulators such as the Financial Conduct Authority (FCA), the Information Commissioner's Office (ICO), and the National Cyber Security Centre (NCSC).

THESE HIGH-IMPACT ATTACKS ARE NO LONGER ISOLATED INCIDENTS.

71%
of UK organisations have experienced at least one material cyberattack.

47%
experienced one within the past 12 months.

22%
endured multiple incidents during the 12-month period.

THE ACTUAL COST OF MATERIAL CYBERATTACKS

FINANCIAL AND REGULATORY PRESSURES ALSO ECHOED ACROSS THE ORGANISATIONS WE SURVEYED:

84% reported revenue loss

73% of publicly listed UK companies reported revising financial guidance[1]

77% of privately held UK firms diverted budgets from growth initiatives

71% paid a ransom—averaging USD 1.41 million per incident

87% faced legal or regulatory consequences, including monetary penalties (45%) and group or representative legal claims (28%)

[1] While relatively few public companies have formally disclosed earnings revisions after a cyber incident, these findings suggest that the financial and operational effects extend well beyond what public filings reveal.

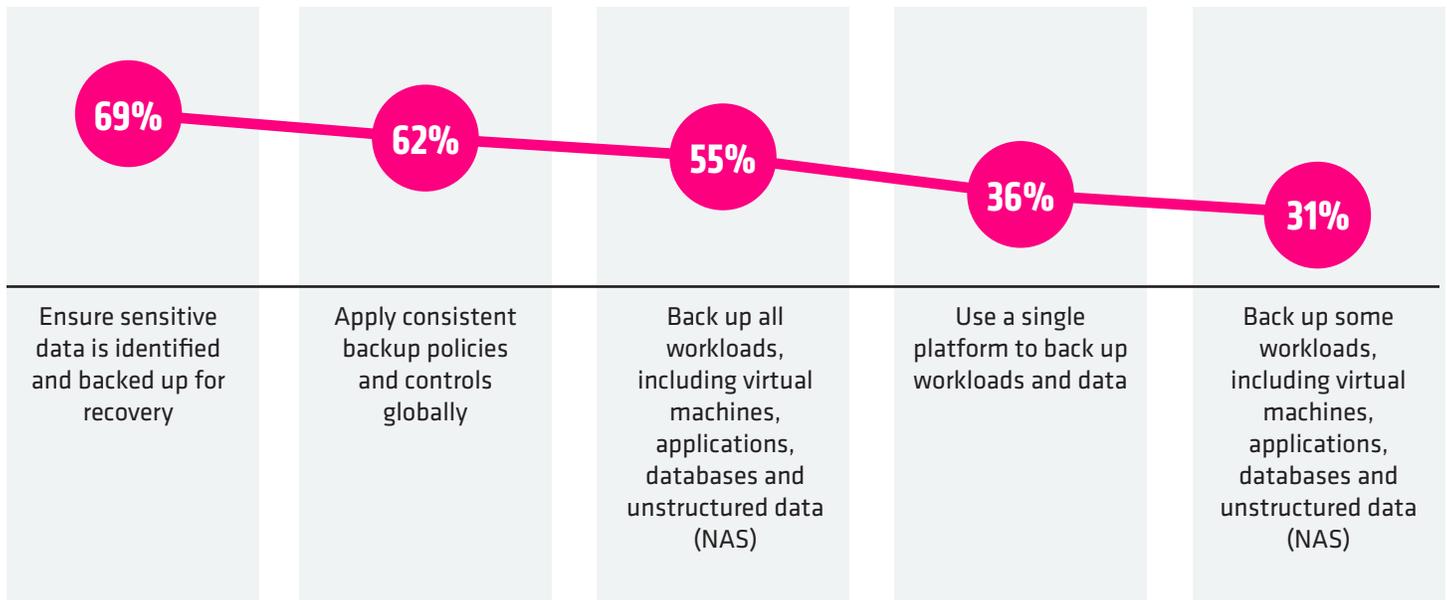## CONFIDENCE IN THE FACE OF CONSEQUENCE

Given the scale of financial and operational fallout revealed in our research, one might expect widespread concern about organisational resilience. Nearly half of respondents (43%) expressed complete confidence that their cyber-resilience strategy could withstand today's threats. This level of confidence stands in sharp contrast to the significant material impacts many of these same organisations have sustained.

WHAT ORGANIZATIONS ARE (AND AREN'T) DOING

We wanted to look beneath the surface and discover where resilience gaps exist. To do that, we asked respondents to describe their approach to some of the key practices and capabilities associated with five core dimensions of cyber resilience: **data protection, data recovery, threat detection and investigation, application resilience, and data risk posture optimisation.**

DATA PROTECTION REMAINS FRAGMENTED ACROSS HYBRID AND MULTICLOUD ENVIRONMENTS

What does your organisation do to protect all data across hybrid and/or multi-cloud environments?

69%	**62%**	**55%**	**36%**	**31%**
Ensure sensitive data is identified and backed up for recovery	Apply consistent backup policies and controls globally	Back up all workloads, including virtual machines, applications, databases and unstructured data (NAS)	Use a single platform to back up workloads and data	Back up some workloads, including virtual machines, applications, databases and unstructured data (NAS)

A majority of UK organisations ensure sensitive data is identified and backed up for recovery, and more than six in ten apply consistent backup policies globally. Yet data protection remains fragmented. Just over half back up all workloads, but only 36% use a single platform, and nearly a third back up only selected workloads. This patchwork approach limits visibility, increases exposure, and complicates recovery. Mature cyber resilience depends on unifying backup and recovery within one intelligent platform secured by Zero Trust principles.

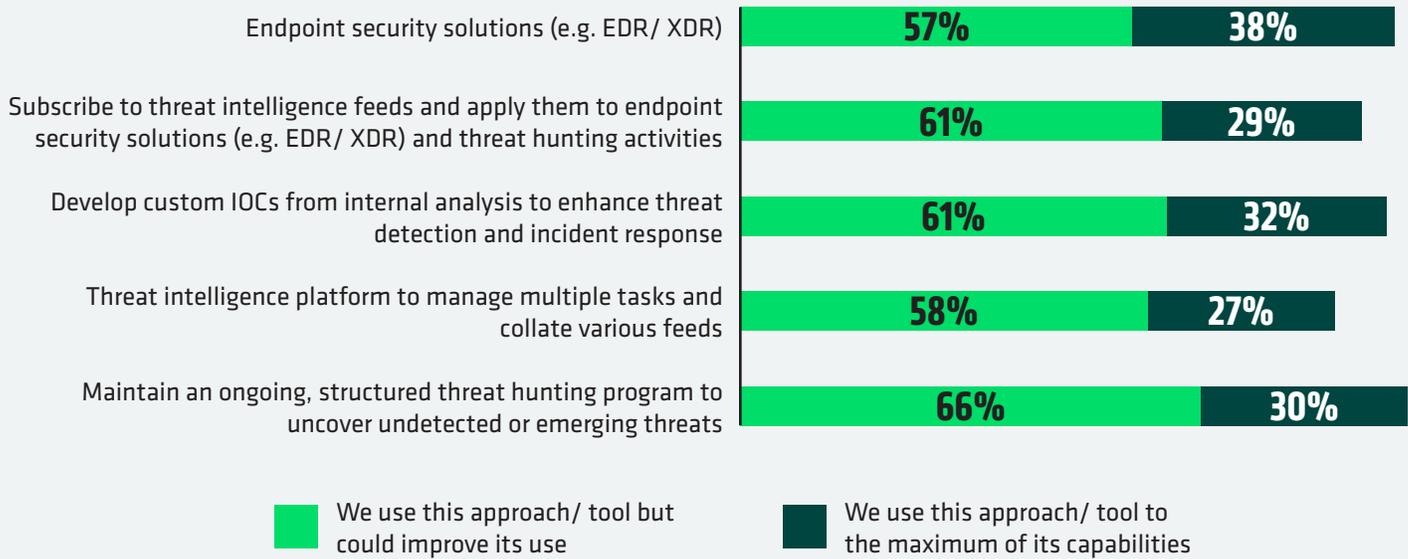## DATA RECOVERABILITY MEASURES ARE COMMON BUT MATURITY VARIES

What does your organisation do to ensure that its data is always recoverable?

65%	Have multi-factor authentication on their backup solution
60%	Require additional authorisation on high-risk admin tasks associated with backup and recovery solutions
45%	Follow the "3-2-1 backup rule" (three copies of data, stored on two different media types, with one copy kept off-site)
45%	Protect critical data with immutability
39%	Least privilege access rights on backed up workloads

Many UK organisations have strengthened access controls around their backup environments. Nearly two-thirds enforce multifactor authentication, and six in ten require additional admin authorisation for high-risk tasks. Fewer than half follow the 3-2-1 backup rule, protect data with immutability, or apply least-privilege access rights. These gaps make full recovery less certain. Mature cyber resilience depends on verified, isolated, and tamper-proof recovery copies.

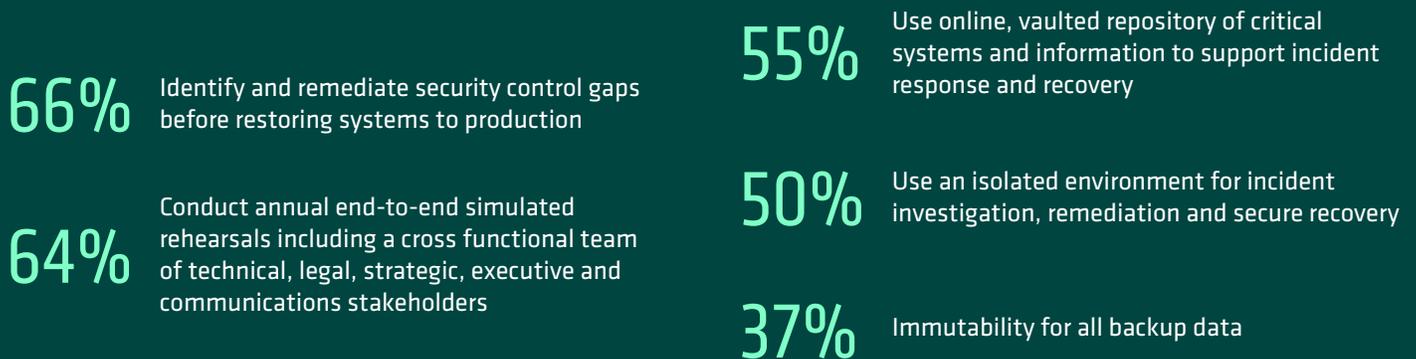# THREAT DETECTION AND INVESTIGATION TOOLS ARE UNDERUTILISED

To what extent does your organisation use each of the following methods or tools to detect and investigate threats?

Method/Tool	We use this approach/tool but could improve its use	We use this approach/tool to the maximum of its capabilities
Endpoint security solutions (e.g. EDR/ XDR)	57%	38%
Subscribe to threat intelligence feeds and apply them to endpoint security solutions (e.g. EDR/ XDR) and threat hunting activities	61%	29%
Develop custom IOCs from internal analysis to enhance threat detection and incident response	61%	32%
Threat intelligence platform to manage multiple tasks and collate various feeds	58%	27%
Maintain an ongoing, structured threat hunting program to uncover undetected or emerging threats	66%	30%

Threat detection and investigation tools are widely adopted but not fully utilised. Most organisations invest in endpoint security, threat intelligence feeds, and structured threat hunting programs, yet only about a third use these tools to their full potential. Mature cyber resilience depends on integrating them into a continuous intelligence loop that improves visibility, detection, and response.

ORGANISATIONS ARE VULNERABLE TO REINFECTION

What does/ would your organisation do to ensure application resilience against cyberattacks?

66% Identify and remediate security control gaps before restoring systems to production

64% Conduct annual end-to-end simulated rehearsals including a cross functional team of technical, legal, strategic, executive and communications stakeholders

55% Use online, vaulted repository of critical systems and information to support incident response and recovery

50% Use an isolated environment for incident investigation, remediation and secure recovery

37% Immutability for all backup data

UK organisations are advancing their approach to application resilience, but gaps remain. Most conduct annual recovery rehearsals, identify security control gaps before restoring systems, and half maintain isolated environments for secure investigation and recovery. Yet only a third apply immutability across all backup data. These gaps leave recovery processes vulnerable to reinfection or data loss. Mature cyber resilience pairs preparation with secure, verifiable recovery zones.

DATA CLASSIFICATION GAINS TRACTION, BUT RISK-DRIVEN USE STILL EVOLVING

How does your organisation use data discovery and classification approaches/ tools to minimise data risk exposure across its entire data estate?

64%
Identify and resolve backup privacy and security violations for compliance

60%
Use backup data classification to determine compliance obligations for impacted data

60%
Identify and prioritise systems for backup

59%
Define and understand cyberattack materiality before an incident occurs

UK organisations are using data discovery and classification more strategically across compliance, response, and recovery. Most address privacy and security violations and apply classification to guide compliance obligations during an attack. Slightly fewer define materiality or prioritise backups based on risk. Mature cyber resilience transforms classification into a systematic approach that optimises data risk posture and informs protection, response, and recovery.

A CLEARER PICTURE OF RESILIENCE MATURITY

When scored collectively, respondents' answers served as a high-level barometer of cyber resilience maturity, revealing clear patterns in how UK organisations are building – or struggling to build – resilience in practice. While the majority fall into the developing stage, only 8% demonstrate the most mature, integrated capabilities that define risk-ready organisations.

THE CYBER RESILIENCE MATURITY CURVE

9% Least Mature

13% Emerging

56% Developing

14% Advancing
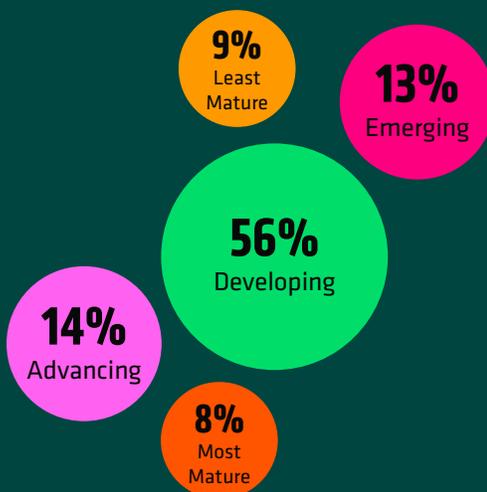
8% Most Mature

Least Mature (9%): Backups, policies, and security safeguards are largely absent or inconsistent. MFA and admin controls are rarely enforced, recovery often lacks isolation, and compliance or materiality assessments are typically overlooked.

Emerging (13%): Some resilience practices are in place, but inconsistently. Organisations may back up sensitive data, apply global policies, or use MFA, but rarely in combination. Threat intelligence and compliance efforts exist yet remain immature and fragmented.
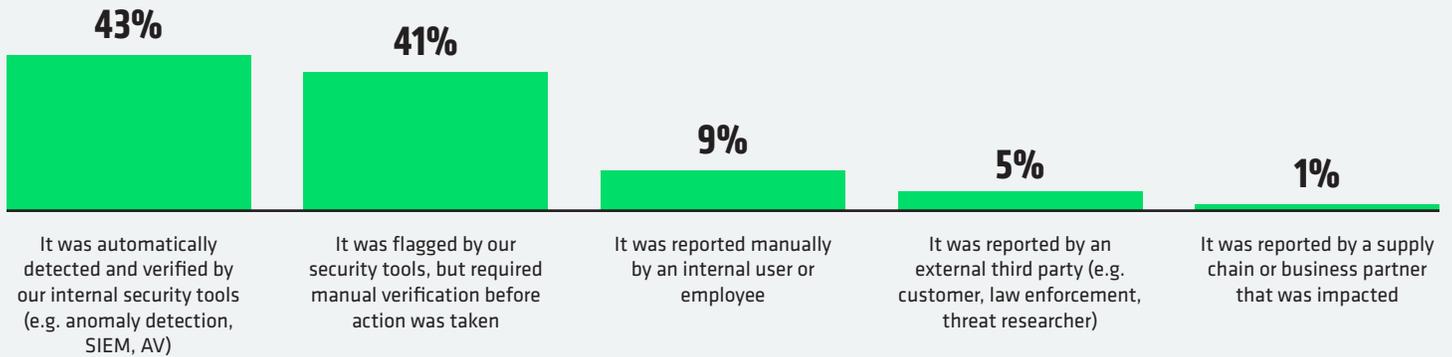
Developing (56%): Core practices such as backups, admin controls, and threat intelligence are more common, though still uneven. Recovery environments, compliance checks, and security gap remediation are applied sporadically, leaving resilience efforts partially effective.

Advancing (14%): Most key practices are consistently enforced, including global backup policies, admin approvals, and remediation before recovery. Threat intelligence is used but not fully optimised, and some gaps remain around isolated recovery and full compliance coverage.

Most Mature (8%): Resilience is systemic and comprehensive. Sensitive data is backed up globally, MFA and admin controls are standard, threat intelligence is maximized, recovery is secured through remediation, and compliance safeguards are consistently met.
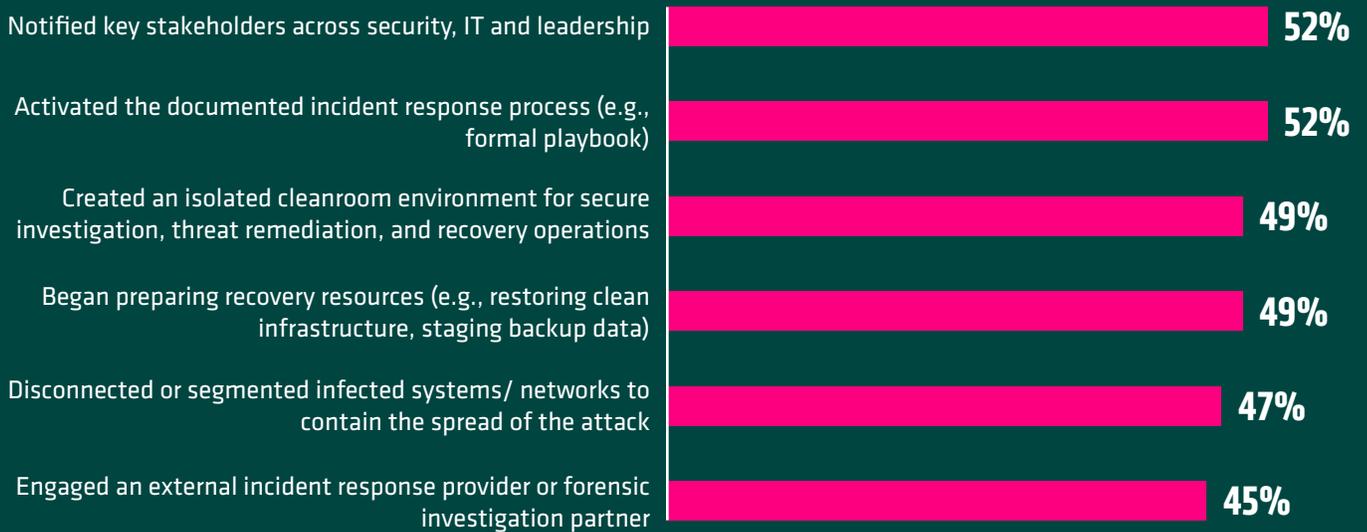
RESILIENCE UNDER FIRE

HOW TEAMS IDENTIFIED THE ATTACK

43%	41%	9%	5%	1%
It was automatically detected and verified by our internal security tools (e.g. anomaly detection, SIEM, AV)	It was flagged by our security tools, but required manual verification before action was taken	It was reported manually by an internal user or employee	It was reported by an external third party (e.g. customer, law enforcement, threat researcher)	It was reported by a supply chain or business partner that was impacted

In the event of a cyberattack, most UK organisations detect incidents internally. Forty-three percent said attacks were automatically identified and verified by their own security tools, while another 41% required manual verification after alerts were triggered. Only a small fraction relied on employee or third-party reports, showing that detection is largely internal but still heavily dependent on human confirmation.

ACTIONS TEAMS TOOK AFTER CONFIRMING THE ATTACK

Action	%
Notified key stakeholders across security, IT and leadership	52%
Activated the documented incident response process (e.g., formal playbook)	52%
Created an isolated cleanroom environment for secure investigation, threat remediation, and recovery operations	49%
Began preparing recovery resources (e.g., restoring clean infrastructure, staging backup data)	49%
Disconnected or segmented infected systems/ networks to contain the spread of the attack	47%
Engaged an external incident response provider or forensic investigation partner	45%

Once the attacks were confirmed, UK organisations moved quickly to prepare for recovery. About half began restoring clean infrastructure or staging backup data, and the same share established isolated cleanroom environments for secure investigation and remediation. Roughly half also notified stakeholders and activated formal playbooks. Fewer contained infected systems or engaged external experts, suggesting response actions remain uneven across critical steps.

STEPS TAKEN BEFORE BRINGING SYSTEMS AND DATA BACK ONLINE

Step	Percentage
Performed full forensics to ensure the threats and any associated attack surfaces were not reintroduced	61%
Implemented broader security improvements to remediate control gaps	56%
Verified data and application integrity	55%
Patched any exploited vulnerabilities	42%
Investigated only the encrypted or visibly impacted systems without broader environment analysis	37%
Restored systems without performing investigation or integrity verification	31%

Before bringing systems back online, most performed at least some level of forensic and remediation work. About six in ten conducted full forensics to ensure threats were eradicated, while just over half strengthened controls or verified data integrity. Four in ten patched vulnerabilities, yet nearly a third restored systems without full validation, leaving openings for reinfection and residual risk.

CHALLENGES TEAMS FACED DURING THE ATTACK

52%	46%	38%	30%	30%
Pressure from leadership to restore systems before the attack was remediated	Inability to communicate or coordinate within our team due to critical systems being down (e.g. email, collaborative applications, ticketing)	Security tools were evaded, and backups were attacked	Lack of access to clean, validated recovery points	We recovered, but were later reinfected because threats weren't fully eradicated

Teams reported significant challenges throughout the process. Many struggled to communicate or coordinate while critical systems remained offline. Others faced pressure from leadership to restore operations before remediation was complete. Security tool evasion, reinfection, and lack of clean recovery points compounded difficulties.

# WHERE RESILIENCE INVESTMENT STILL FALLS SHORT

Even well-prepared organisations struggle to sustain resilience once an attack unfolds. As operational pressure mounts, coordination gaps, incomplete remediation, and reinfection risks expose how fragile recovery can be without unified processes and continuous assurance.

These weaknesses are mirrored in how UK organisations allocate their cyber-resilience budgets today. While most align with the NCSC Cyber Assessment Framework (CAF) and ISO/IEC 27001, many also reference the NIST Cybersecurity Framework to benchmark maturity across its five core functions—Identify, Protect, Detect, Respond, and Recover.

When asked how they allocate budgets across these areas, most continue to concentrate investments in prevention, protection, and detection, while comparatively fewer resources are directed toward response and verified recovery. The result is a maturity curve still weighted toward defence rather than restoration, highlighting an opportunity to strengthen resilience where it matters most: after the attack.

NIST CYBERSECURITY FRAMEWORK.

Box size shows highest to lowest proportion of cyber resilience investments

#2	**#1**	**#3**	**#4**	**#5**
IDENTIFY	**PROTECT**	**DETECT**	**RESPOND**	**RECOVER**
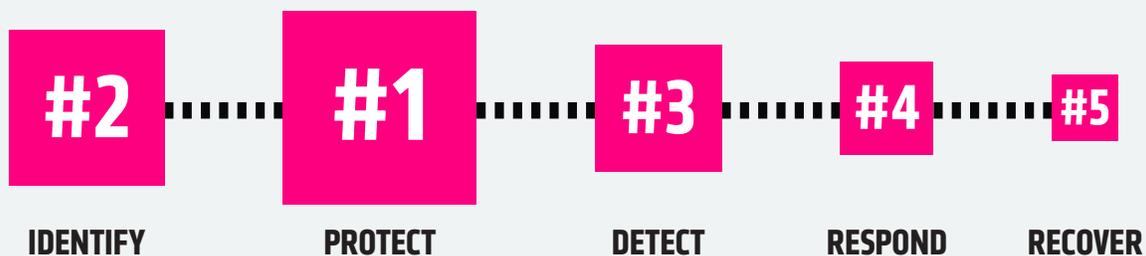
AI AND AUTOMATION EMERGE AS RESILIENCE MULTIPLIERS

The results also show that UK organisations view AI as a powerful enabler of cyber resilience, particularly in improving detection speed and response precision. Nearly all respondents rated tools such as anomaly detection, user behavior analytics, and AI-driven threat investigation and response as effective in strengthening their security posture.

Even newer GenAI-based assistants, capable of natural language threat queries and contextual analysis, are gaining traction as a way to simplify and accelerate decision-making. Sixty-seven percent of UK organisations said one of the biggest lessons learned after a cyberattack was the need for greater automation across detection, response, and recovery. This reflects the growing demand for integrated automation and orchestration platforms, where AI acts as a force multiplier, driving greater efficiency, consistency, and effectiveness across these processes.

When looking ahead, most expect AI to play an increasingly strategic role in cyber defence by the end of 2026. More than half (52%) anticipate AI will support human decision-making, enhancing analysis and recommendations, with humans remaining in control of final actions. Another 34% expect AI to become central to detection and response, even making some autonomous decisions. This signals a clear trajectory: AI is evolving from an assistant to an operational cornerstone of cyber resilience, poised to enhance speed, precision, and confidence across detection, response, and recovery.

THE FUTURE OF RESILIENCE STARTS NOW

While UK organisations are making measurable progress in cyber resilience, many still have room to improve their response, recovery, and validation of readiness after an attack. Cyber resilience represents a massive competitive advantage. The future belongs to organisations that invest in the people, products, and processes to recover faster, maintain customer trust, and keep business moving when others can't. When disruption is virtually inevitable, resilience isn't just protection; it's performance.

Build resilience before crisis strikes:

- Book a Ransomware Resilience Workshop.
- Level up with a five-step cyber resilience action plan.
- Learn about Cohesity's cyber resilience solutions.

METHODOLOGY

COHESITY

Cohesity commissioned Vanson Bourne to survey 3,200 IT and Security decision-makers in September 2025, forming the basis of these findings. Respondents represent organisations in the US (500), Brazil (200), UK (400), Germany (400), France (400), UAE (100), Australia (200), South Korea (200), Japan (400), India (200), and Singapore (200). The organisations had 1,000 or more employees and came from a range of public and private sectors, with a focus on financial services, public sector, and healthcare.

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