

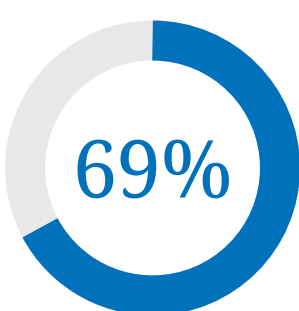
# NTT DATA Technology Foresight 2025

Accelerated security fusion: a pivotal approach to defending against increasingly complex and sophisticated threats

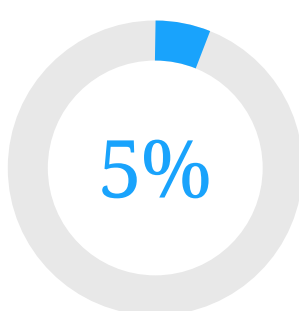
“ Visualize a future where security becomes an invisible, adaptive force, always one step ahead.

**Accelerated security fusion:** enabling organizations to safeguard critical assets, ensure operational continuity and bolster resilience in the face of mounting cyber risks.

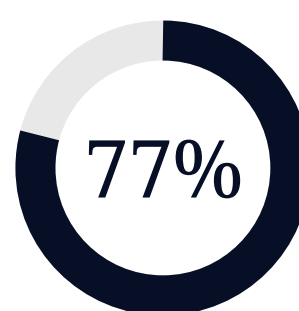
## Boosting defenses by integrating threat intelligence, ML and advanced real-time analytics across multiple security domains



of executives believe AI will be necessary to respond to cyberattacks.



feel highly confident in their AI security preparedness.



of companies experienced breaches in their AI systems in the last year.

66%

of organizations have deployed an AI package with at least one of the common vulnerabilities and exposures.

## Benefits to organizations

- Identify vulnerabilities proactively
- Streamline response processes
- Strengthen their security posture across diverse operational environments



## Technological advances to monitor

Zero trust architecture

Behavioral analytics

Cyberfusion centers

Encryption technologies

## Research and development



16,300

patents registered in 2023

Approximate figures



\$4.43 million

Average cost of a data breach cost for organizations not using AI and automation in security

Approximate figures

## Strategies for success

1

Integrate organizational strategies, new threat detection technologies and user engagement.

2

Fortify digital identities with enhanced, AI-powered identity and access management.

3

Employ measures designed to protect sensitive data from unauthorized access and breaches.

4

Integrate AI into cyber-risk management processes.

## Future scenarios and Gen AI-powered personas can help organizations:



Explore the possibilities of what lies ahead



Simulate realistic business environments



Minimize risk through scenario-based planning

## Navigating blind spots: what if ...?

Like almost every technological breakthrough, accelerated security fusion comes with uncertainties:

### Effectiveness of GenAI for threat simulation

What if GenAI becomes both the ultimate defense mechanism and ultimate risk in cybersecurity?

What if AI-driven defenses redefine cybersecurity, transforming it into a predictive science?

### Post-quantum cryptography readiness

What if a fragmented digital ecosystem accelerates innovation while exposing vulnerabilities to quantum-powered attacks?

What if quantum readiness becomes the new determinant of power and resilience in the digital age?

## Where to next?



Systematically analyze vulnerabilities, including cryptographic standards, to safeguard against emerging risks.



Leverage automation to enhance speed, accuracy and scalability in cyber incident management.



Ensure integration between teams and technologies to establish a cohesive and proactive defense strategy.

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