

2025 in Review

The Year AI Became Operational

Exploring how AI moved from experimentation to core business infrastructure, reshaping work, security, and the future of enterprise technology.

AI & Cybersecurity Review

2025 Annual Report **AI WATCH BRIEF.**

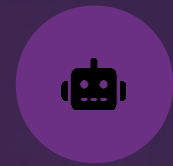


How AI Actually Changed Work in 2025



Knowledge Acceleration

30–50% speed increase in knowledge work functions across the organization



AI Copilots Replace Workflows

Coding, contract analysis, and SOC triage automation became standard practice



Higher Impact Human Roles

Fewer routine tasks, more focus on validation, ethics, and exception handling



New Work Paradigm

Human judgment shifted to strategic oversight and decision validation

Large Language Models: What Matured in 2025

Technical Breakthroughs



Multimodal Capabilities

Text, image, audio, and video processing became standard



Domain Specialization

Fine-tuned models outperformed general-purpose systems



Agent Reliability

Tool-using agents became production-ready with API integration

Security Considerations



Expanded Attack Surface

More models equals greater vulnerability exposure

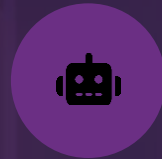


Model Risk Management

AI behavior now embedded in enterprise risk frameworks



The Rise of AI Agents & Non-Human Identities



Autonomous End-to-End Task Execution

AI agents now perform complete workflows independently without human intermediaries



Credentials & Permissions

AI agents granted API keys, credentials, and enterprise access



Identity Management Crisis

Most organizations cannot track which AI agents have access to critical systems

Identity paradigm has fundamentally shifted beyond humans only

Shadow AI Became a Board-Level Issue

1

Uncontrolled Deployment

Employees activated AI tools without security review

2

Data Exposure Risk

Sensitive data fed into public and private model systems

3

Proliferation

AI copilots, plugins, and rogue agents multiply across the organization

4

Governance Reality

2025 truth: Govern and observe shadow AI, don't just block it

Quantum Computing: Why 2025 Was a Turning Point

Quantum technology crossed from theoretical research into early commercial deployment, triggering urgent security implications.

Commercial Viability

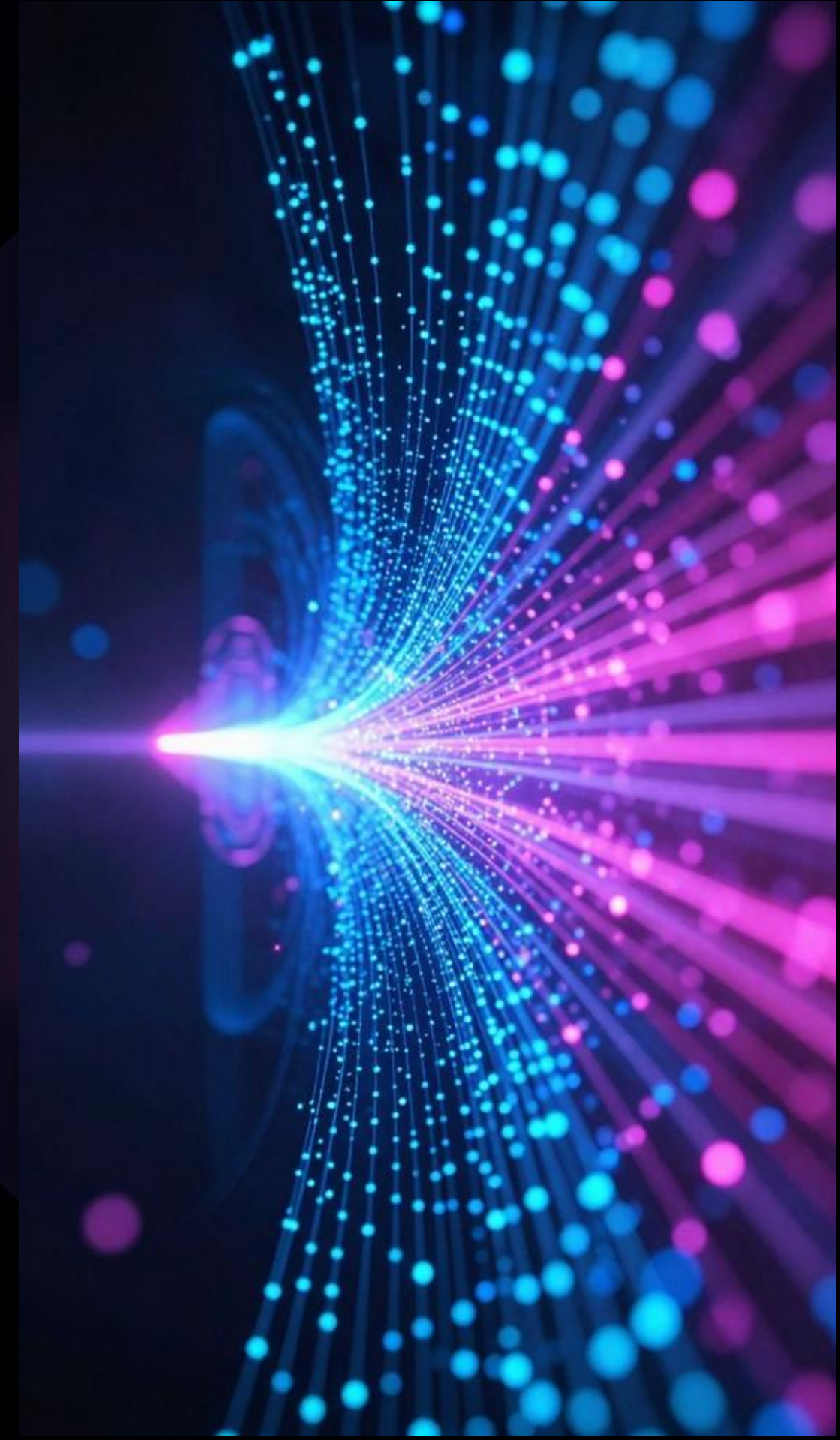
Theory became reality with first operational quantum systems

Government & Hyperscaler Investment

Massive acceleration in quantum computing funding

Harvest Now, Decrypt Later

Post-quantum cryptography became a credible threat vector



Looking Ahead to 2026: What to Expect from AI & LMs

AI Agents Managing AI Agents

Autonomous agent orchestration becomes standard architecture

1

2

AI-Native Security Tools

ML-based defenses outperform traditional rule-based systems

3

Governed Intelligence Advantage

Competitive edge shifts from raw data to intelligence governance

4

5

Temporal Reasoning Models

AI systems understand context across time, not just single prompts

Model Specialization Economy

Cost efficiency through distillation and domain-specific models

From Data Advantage to Intelligence Governance



2026+: Quantum's Impact on Security

Post-Quantum Urgency

Encryption timeline accelerates for future-proof systems

Long-Lived Data Risk

Historical healthcare, financial, and government data vulnerable now

Hybrid Architectures

Combined quantum-resistant and classical security systems emerge

Compliance Lag

Regulations will trail technology adoption by years

Cybersecurity Risks to Watch Closely



1. AI Model Poisoning & Prompt Injection

Malicious inputs
compromise model
behavior and outputs



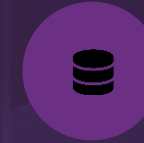
2. Credential Abuse by AI Agents

Compromised agent
credentials grant broad
system access



3. Insecure Model Supply Chains

Third-party models and
weights introduce
vulnerabilities



4. Data Leakage via Embeddings

Vector stores and model
outputs expose sensitive
information



5. Lack of AI Visibility & Auditability

Organizations cannot track or explain AI decisions

AI Attacks Scale Faster Than Human Defenses



What Winning Organizations Will Do Differently in 2026



Action 1

Treat AI as Critical Infrastructure – Deploy with same rigor as core systems



Action 2

Govern Human & Machine Identities – Unified IAM across all entity types



Action 3

Security-First AI Pipelines – Embed protection from development to deployment



Action 4

Plan for Post-Quantum Now – Begin cryptography migration immediately



Action 5

Predictive AI Defense – Shift from reactive to intelligence-driven security

In 2026, success depends on governing the intelligence you create.