

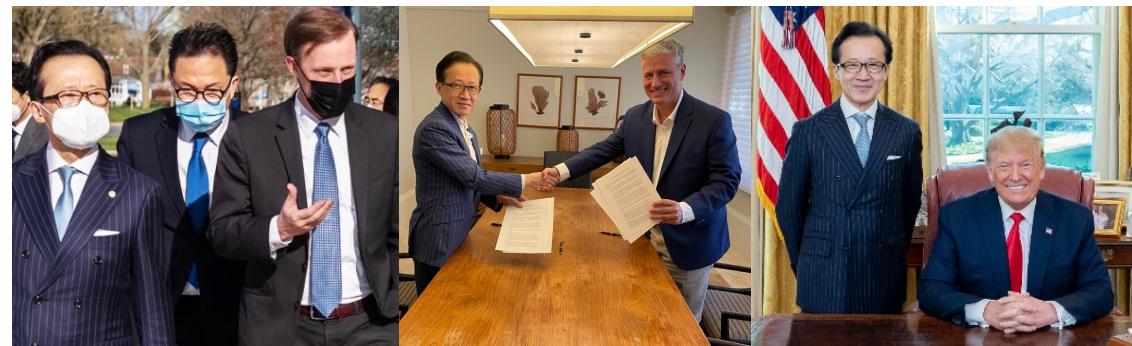
The Era of “Preemptive Defense” Built by AI

The Asahi GHD Incident as a Turning Point for Japanese Corporations

Shigeru Kitamura

■ Shigeru Kitamura

- Long career at the core of Japan's intelligence and security community.
- Served as Director of Cabinet Intelligence.
- Later became Secretary General of the National Security Secretariat, a role comparable to the U.S. National Security Advisor.
- Worked closely with Shinzo Abe to help establish Japan's National Security Council and shape key national security legislation.



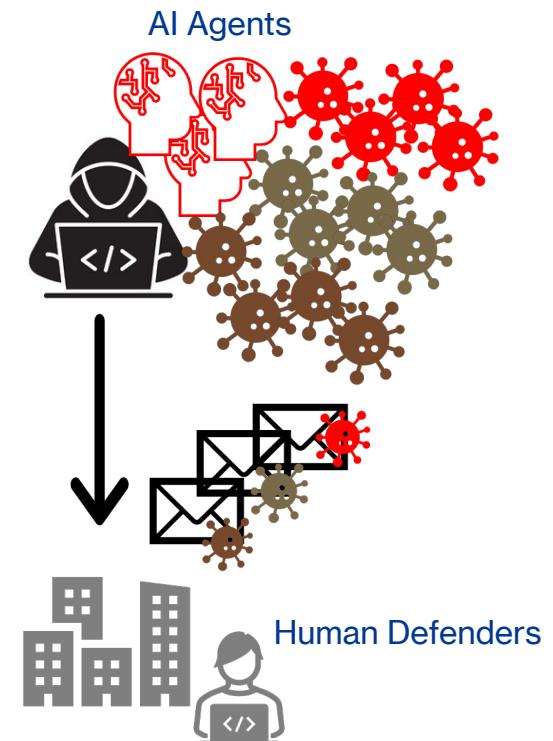
The Asahi GHD Incident: A New Type of Attack

- Late Sep 2025: Asahi Group Holdings operations disrupted by cyberattack
- Core IT systems paralyzed → production and logistics stopped
- Supply chain impact: product shortages across retail and restaurants
- Qilin “double extortion”; possibly state-linked
- Key takeaway: cyberattacks have evolved into weapons of economic coercion



Cyber Defense Is Now Economic Security

- The use of AI by attackers has changed the rules of cyber warfare
- Generative AI enables fast creation of malware and phishing emails that are very precise in context and language
- Core risk: autonomous AI agents coordinating end-to-end attacks
- Relying on human-only analysis and response is too slow
- Operational delays of hours can threaten the entire enterprise (supply chain paralysis)



Active Cyber Defense

- Strengthening information sharing
- Use of communications information for detection
- Empowerment for active prevention and mitigation
- Establishment of a centralized headquarters

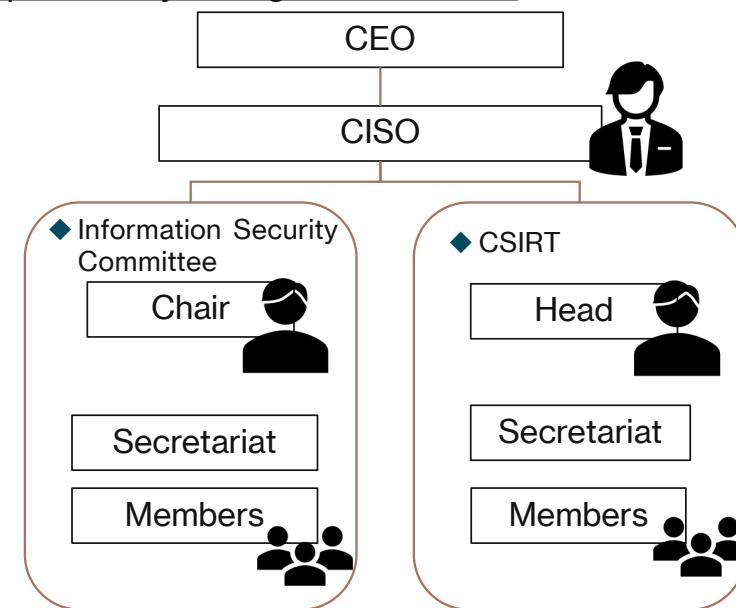


On ACD, from the National Cyber Office

The Limits of Human-Centric Defense

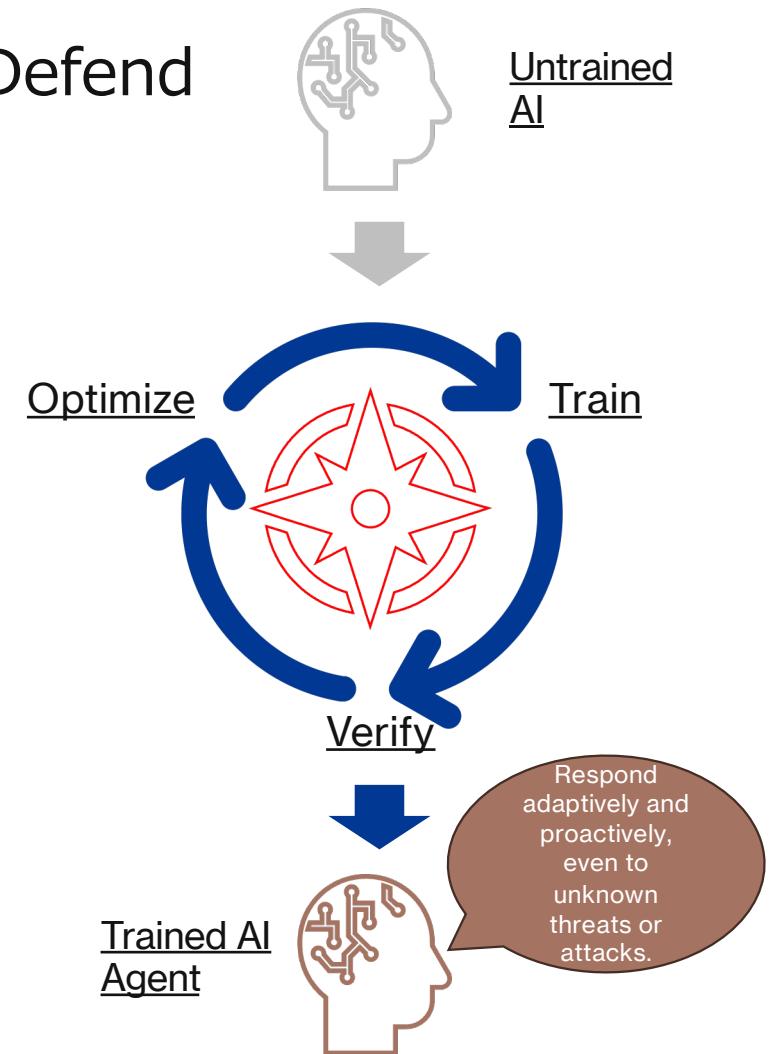
- Traditional hierarchical, human-centric security structures and workflows no longer viable
- Log volume is overwhelming: tens of thousands of alerts per day
- Asymmetry of cybersecurity
- Required shift to Preemptive Defense: autonomous, AI-driven, preemptive judgement and action

Example security management structure



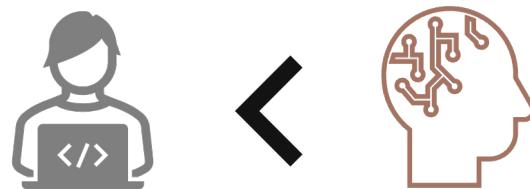
The Cyber Range: Where AI Learns to Defend

- Preemptive Defense requires a dedicated training environment for AI
- A cyber range provides a high-fidelity digital twin of networks, servers, and data flows
- AI agents train against simulated attacks, improving through millions of iterations
- Training must be done carefully (e.g., Proximal Policy Optimization).
- From “thinking after being attacked” to “stopping the attack before it happens”



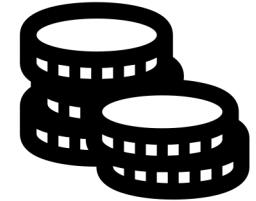
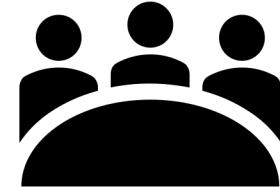
A Competition of Intelligence Velocity

- Cyberspace is now a battlefield of intelligence velocity: the time from detection to decision to action.
- AI-driven attacks exploit vulnerabilities faster than human can respond; defenders must operate in milliseconds
- Weaponized AI is no longer hypothetical
- Effective defense needs prediction, not just speed
- Preemptive Defense = anticipate the next move and close the vulnerability before exploitation



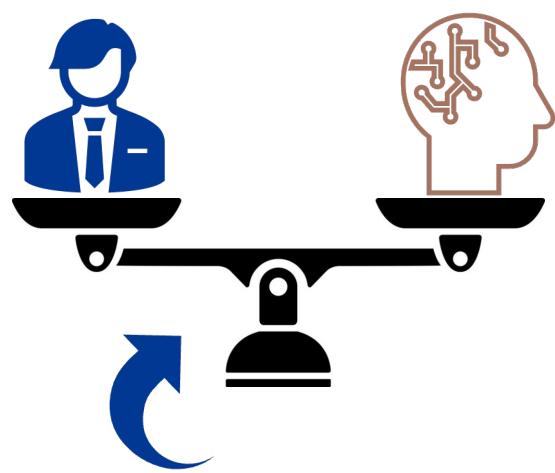
From Cost to Investment

- Security must also be redefined in the boardroom
- Average breach cost ≈ US\$4.88m
- Preventing one major incident can justify investment in AI defense
- Real damage goes far beyond money
- Cyber defense is not a cost but an investment that sustains trust
- Investors and credit agencies will evaluate companies based on their security posture



Governance and Accountability

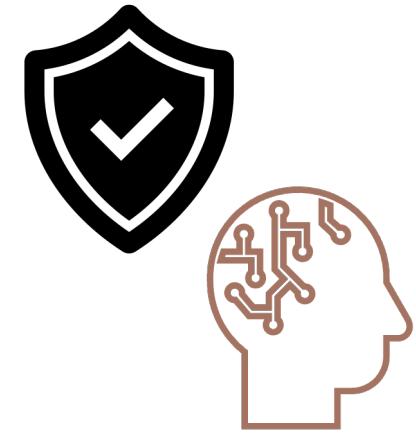
- A CEO cannot say, “The AI made the mistake.”
- Decisions must be explainable: explainability, visualization, and human oversight
- Balancing autonomy and governance



The Key to the Next
Generation of Corporate
Governance

Avoiding the AI Safety Myth: Three Principles

- Overconfidence is dangerous
- Blind trust in AI is not trust at all – it is abdication of responsibility



Three Principles

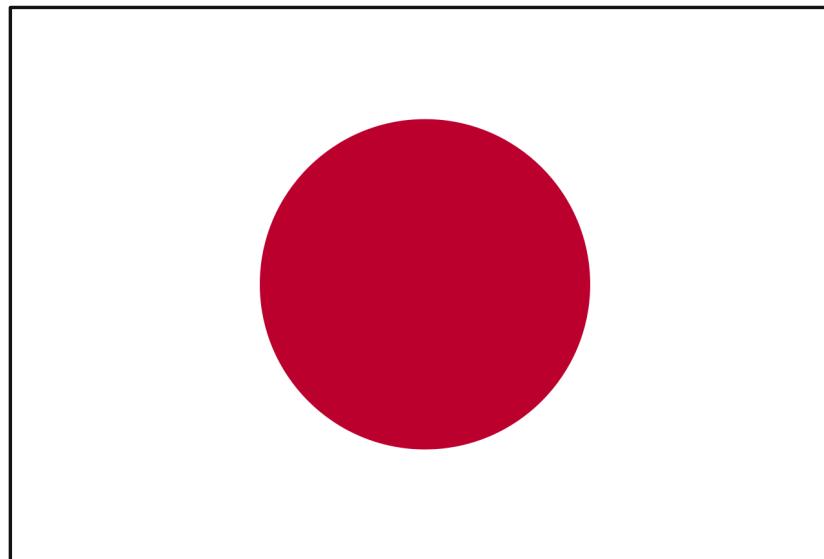
Principle 1: Accurate asset information – no drift between virtual and real systems

Principle 2: Intentional imperfection – training AI for messy reality, not perfect labs

Principle 3: Phased deployment – gradual expansion of trust

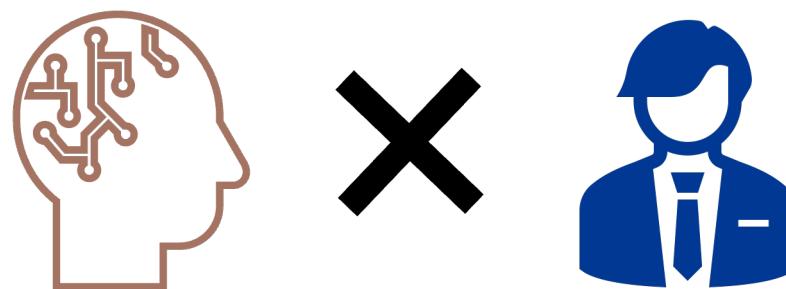
Toward an Ecosystem

- In the U.S., platforms like SimSpace are used jointly by the military, industry, and academia.
- Japan must move beyond isolated efforts. The Asahi incident should be a catalyst for cross-sector cooperation (Active Cyber Defense).



Preemptive Defense as a Management Philosophy

- Cyber defense is no longer a technical issue; it is a philosophy of decision-making
- Looking safe is not the same as *being safe*
- Next-generation defense: AI provides speed, cyber ranges provide verification, humans provide governance.
- Realizing Preemptive Defense: AI shows the signals, humans give them meaning, organizations act.
- Achieving true safety: AI is forged, humans govern, society trusts.



Thank You