

(1)

- This is a theory building project.
- In scope for this project:
- AI applications that change cybersecurity culture We are not exploring:

  - How managers use AI for business applications in general
    - management and culture

### **Research methodology**

Joint team of CAMS and KPMG reviewed past literature, created hypothesis and developed a survey to collect data to build a theory. Collected 39 surveys from various forums. Participants were leaders from diverse geographies, organizations, and industries.

# (3)

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### **About half of organizations have started testing ways** to use AI, mostly around phishing exercises

Almost 60% of the respondents said they believe there are both (positive and negative) impact of AI on organization's cybersecurity culture. 33% of the respondents believe there was only positive **impact** using AI on organization's cybersecurity culture. None of the respondents mentioned that AI had only negative impact on organizations cybersecurity culture. Around 40% of the respondents mentioned that they have taken steps to use AI to improve cybersecurity. The respondents mentioned using AI for phishing simulations or evaluating AI use case POCs. Around 48% of respondents mentioned 'No' but they explained that either they are **unaware** of using AI for cybersecurity culture or they are still discovering it.

15<sup>th</sup> May 2024

Al is disrupting every aspect of business. We explore how it will help, and hurt, our cybersecurity culture

Key challenges AI introduces to the organization as a whole Threat actor use of AI to disrupt business, outside of human risk



### Suggested Al uses to reduce human risk

Training and learning by creating content and summarization Assessing and providing performance feedback by personalizing training tools and interjecting automated reinforcement. Monitoring, identifying, assessing, quantifying and encouraging secure behaviours

(5)

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**Rewarding** desired secure behaviours in the moment Correcting problematic behaviours with just-in-time training, highlighting corrective actions, and reinforcing desired results

## Participate in our project: Take our survey and share your thoughts

Please provide your thoughts on the impact of AI on cybersecurity culture. Scan this QR code and take our 10 min survey. If you provide your name & email, we will send you a summary of the results. Questions? contact kerip@mit.edu.

