

Addressing Mismatches in Cybersecurity Culture between Large Companies and Small to Medium-Sized Enterprises (SMEs) jkwong1@mit.edu Dr. Jillian Kwong

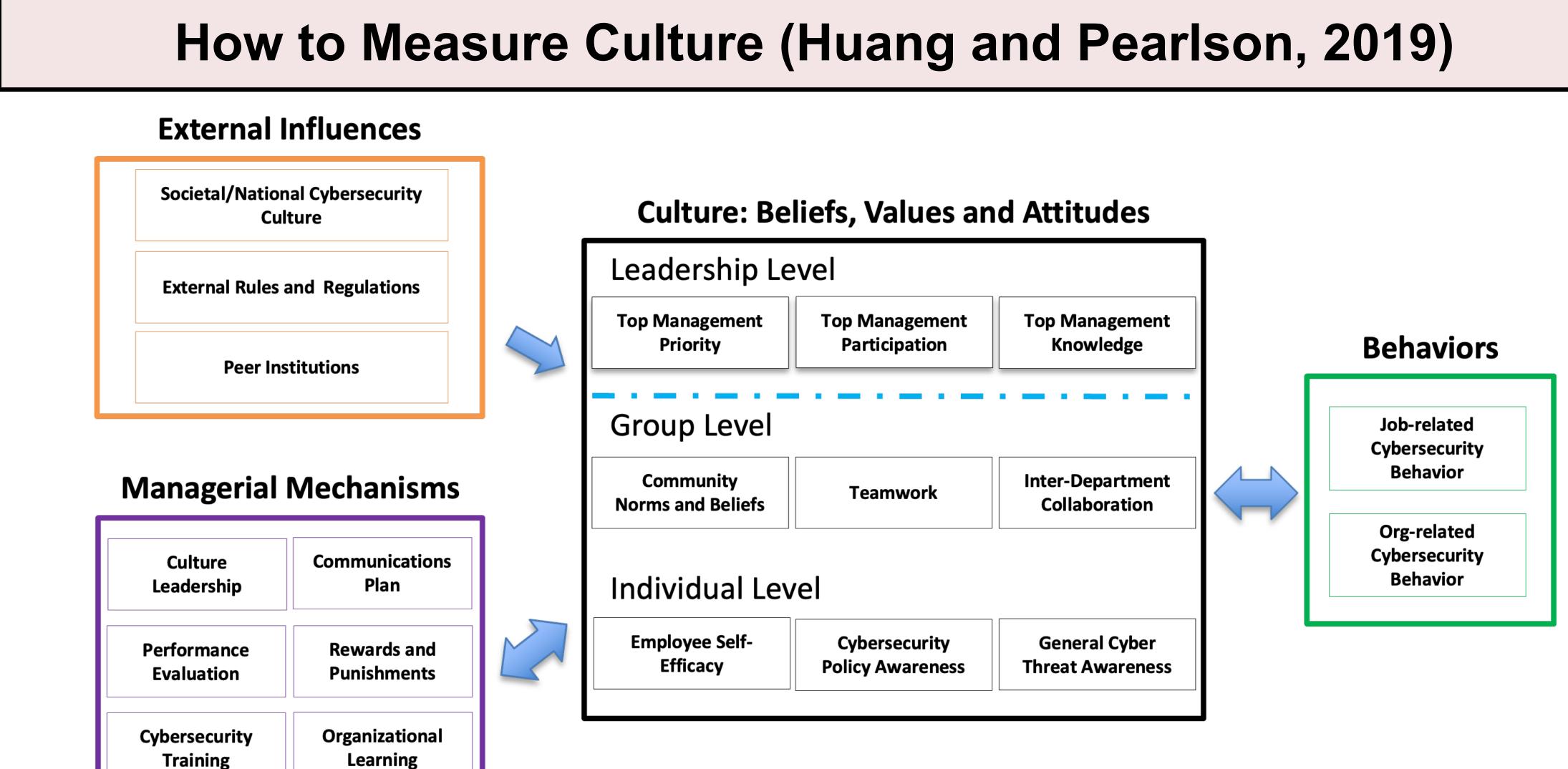
### May 2024

### **Problem: SMEs struggle to balance productivity and operational** efficiency against cybersecurity

- An estimated 90% of cybersecurity breaches worldwide occur in small businesses
- 75% of SMBs could not continue operating if they were hit with ransomware
- 82% of ransomware attacks in 2021 were against companies with <1,000 employees

### **Purpose: Develop a Cybersecurity Culture Model to be Transmitted Across Organizations**

- 1. Quantify cybersecurity culture mismatch between large companies and their suppliers to understand the impact on working relationships
- 2. Identify mechanisms required to align cybersecurity culture across companies
- 3. Determine interventions and leading practices that will help address culture mismatch
- 4. Highlight how cybersecurity culture can be propagated to suppliers



## **Culture and the Supply Chain:** Aligning Cybersecurity Values, Attitudes, and Beliefs across Supply Chains

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## **Research Process:** What We Are Doing (2-Step Process)

- **1. Survey** to assess the culture of the large company and a supplier
- Results will map the two cultures based on each org's values, attitudes, and beliefs around cybersecurity and quantify culture mismatch

## 2. Interviews and fieldwork to measure

cultures in action

- Characterize the relationship between large companies and suppliers (e.g., types of interactions, frequency, information exchanged, etc.)
- Understand mechanisms underlying relationships (e.g., organizational barriers, drivers for change, internal development efforts, etc.)

# Get Involved: Be Part of A Case Study!

- We are looking for 5-6 case studies with organizations who have existing programs to help their SMEs with their cybersecurity
- Our goal is to highlight leading practices to improve SME cybersecurity in the supply chain
- Interested? Or know an organization that fits? Contact Dr. Jillian Kwong, jkwong1@mit.edu

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