

0

Culture Club Agenda



11:30am	Kick Off
5 Min	Introduction
40 Min	Hot Topics Discussion
40 Min	Case Study Discussion
5 Min	Wrap Up
1:00pm	Adjourn

Chatham House Rule



To encourage interactivity, we will use the Chatham House Rule:

"Under the Chatham House Rule, participants are free to use the information received, but neither the identity nor the affiliation of the speaker(s), nor that of any other participant, may be revealed."

2

Introductions



Please introduce yourself. Tell us your:

Name
Company
Position (your role in your company)

Hot Topics Discussion: What's On Your Mind Today?



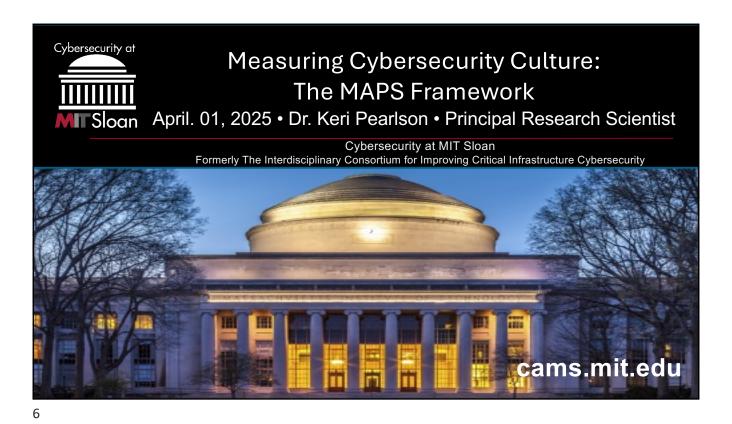
Audience Participation: What question would you like to discuss with this group today?

4

Hot Topics Discussion: Questions submitted with registration



- How do you build bridges with organizations within the company that view Cyber as a blocker instead of an enabler? (Jeremiah, Premera)
- How do you get management buy-in on the importance of cybersecurity (awareness)? (Michaela, Mondi)
- 3. Do you have a risk score?(Betsy, B of A)
- 4. How are others introducing HRM and HRI(Human Risk Index/Score) to senior leaders? Are you providing a HRM score to employees? (Tim, Mastercard)
- 5. Non-punitive recommendations on handling and changing behaviors of Repeat Offenders (Laurie, Liberty)
- 6. How do you keep coworkers engaged in cyber awareness? (Cherisse, HPE)
- 7. How is everyone feeling about AI now, several years in? (Kevin, MongoDB)
- 8. Best ways to watch/keep up with new issues without relying on too many sources.(Kathi, Liberty)
- What are some uses cases on GenAl being used to assess and produce metrics around cyber culture? (Jay, KPMG)
- 10. What are other ways that people in the industry measure culture? (Sarah, Microsoft)
- 11. What are the key indicators of a strong or weak cyber culture? What are the most effective metrics to track cyber culture over time? (Elodie, SE)
- 12. Methodologies and criteria to measure CS culture. (Jos, Engle) Baseline metrics (Amy, MongoDB)
- 13. How to measure the impacts of the efforts made on cybersecurity culture (Piret, Engie)



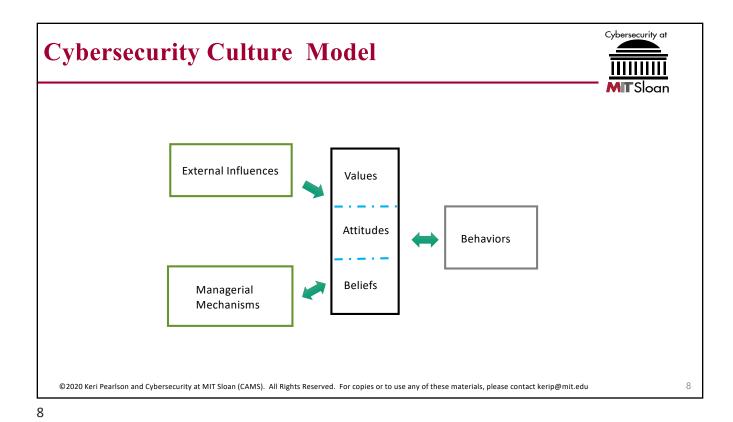
We want to drive strong cybersecurity behaviors



A Cybersecurity Culture:

The **Beliefs**, **Values and Attitudes** that drive cybersecure **Behaviors** in an organization

© 2023 Keri Pearlson, Keman Huang and Cybersecurity at MIT Sloan (IC)3. All Rights Reserved. For copies or to use any of these materials, please contact kerip@mit.edu



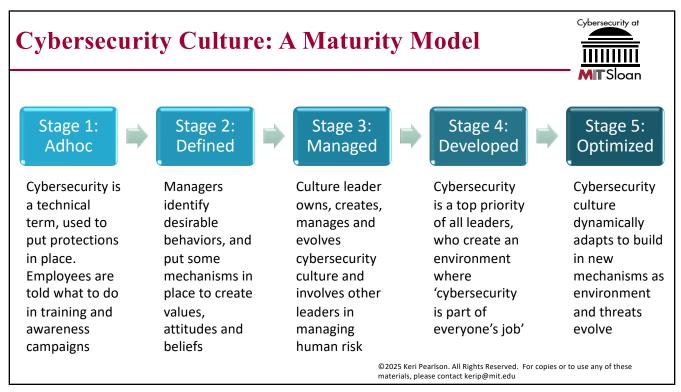
Our culture model research sparked a number of other projects:



- Secure by Design: a culture of designing secure products
- Liberty Mutual Case study (used to illustrate and discuss culture)
- Banca Popolare di Sondrio Case Study (Italian case study)
- C6 Bank Case Study (building a cyber culture from the ground up)
- Verizon Media/Yahoo Case Study (measuring the success of culture initiatives)
- Al's Impact on Cyber Culture
- A Culture Maturity Model
- Measuring Cyber Culture Maturity
- Sharing Culture in Our Supply Chains

Plus many more research projects outside of MIT (we know of over 97 other studies citing this work)





The MAPS Tool to Measure Cybersecurity Culture Maturity



Hypothesis: We can assess constructs from our cybersecurity culture model and evaluate how mature a culture is:

Management/Leadership
Attitudes/Values/Beliefs
Policies
Strategy

© 2025 Keri Pearlson. All Rights Reserved. For copies or to use any of these materials, please contact kerip@mit.edu

12

The MAPS Tool to Measure Cybersecurity Culture Maturity



We can measure these constructs and evaluate how mature a culture is:

Mar Attitu Polici Strate Management/Leadership:

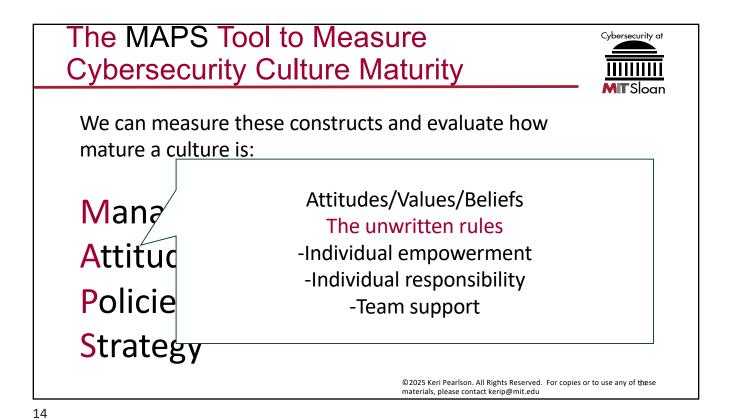
Ownership and motivator for culture

-Culture leader

-Resilience plans

-Supervisor/Executive involvement

© 2025 Keri Pearlson. All Rights Reserved. For copies or to use any of these materials, please contact kerip@mit.edu



The MAPS Tool to Measure Cybersecurity at Cybersecurity Culture Maturity We can measure these constructs and evaluate how mature a culture is: **Policies M**anag Rules and procedures **Attitud** -Training -Compliance **Polic** -Rewards/Consequences Strateg © 2025 Keri Pearlson. All Rights Reserved. For copies or to use any of these materials, please contact kerip@mit.edu

The MAPS Tool to Measure Cybersecurity Culture Maturity



We can measure these constructs and evaluate how mature a culture is:



Strategy

Goals and plans

- -Group Collaboration
- -Just in time learning
 - -Funding of culture

© 2025 Keri Pearlson. All Rights Reserved. For copies or to use any of these materials, please contact kerip@mit.edu

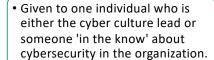
16

Measuring Culture: the Process



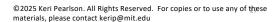
- Given to 30+ individuals (leaders and employees) in the organization
- Used to gauge their perceptions about how cybersecurity works in their organization, and their role in keeping the organization cybersecure

Cybersecurity Culture Assessment



 Used to assess the presence or absence of some of the components from the cybersecurity culture framework

Cybersecurity
Culture
Inventory



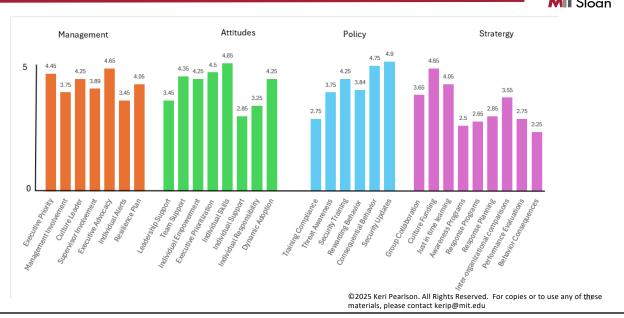
Cybersecurity at Outcomes the Process Analysis of the responses Summary of the inventory from both the assessment Summary of attitudes of respondent and the inventory will provide from MAPS insight into the status of the the cybersecurity culture and Gaps between inventory and how to improve it. attitudes Actionable insights for organization Collection from multiple to increase its maturity organizations will enable Comparisons between sites to comparisons and a rich data understand culture maturity set for understanding how culture evolves and matures in enterprises. © 2025 Keri Pearlson. All Rights Reserved. For copies or to use any of these materials, please contact kerip@mit.edu

Cybersecurity at Measure each competency on a scale of 1-5 **MIT**Sloan Executive Priority **Group Collaboration** Management **Culture Funding** Involvement Just in time learning Management Awareness Program Culture Leader Response Program Supervisor Involvement Response Planning **Executive Advocacy** Inter-organization **Individual Alerts** comparisons Resilience Plan Performance Evaluation **Behavior Consequences** Leadership Support **MAPS Team Support Attitudes Strategy** Individual **Empowerment** Executive **Training Compliance** Prioritization **Threat Awareness Individual Skills Security Training Individual Support Rewarding Behavior Policy** Individual Consequential Behavior Responsibility **Security Updates** Dynamic Adoption

19

Culture Assessment Outcome





20

SAMPLE: Recommendations Based on Assessment and Inventory Data (under development)



Sample analysis might include:

MAPS Assessment Report:

Management: 3.8

Attitudes: 3.2Policy: 4.0Strategy: 2.8

Gaps comparing Assessment with Inventory:

- Executives are not seen as prioritizing cybersecurity behaviors
- Non-cyber managers do not show interest or get involved in cybersecurity

Overall, the assessment of your organization shows a culture level between *managed* and *developed*. Based on your MAPS report, here are actionable insights for increasing *management* competencies:

- Ask executives to demonstrate commitment to cybersecurity talking about it with peers.
- 2. Give supervisors a cybersecurity topic to talk about it in their next team meeting.
- Challenge employees do a short presentation on what they would do if the organization had a cyber incident.

© 2025 Keri Pearlson. All Rights Reserved. For copies or to use any of these materials, please contact kerip@mit.edu

Pilot Testing with a Municipality



Opportunity:

Apply the Cybersecurity Culture Assessment to a local municipality. Make this available to the MIT Cybersecurity Clinic program.

Pilot Test:

Working with the cyber-leader of a local municipality, we have administered the inventory and the assessment.

Status:

We are in the data collection phase. We expect to do the analysis, create the sample report, and write up our experience by the end of June.

© 2025 Keri Pearlson. All Rights Reserved. For copies or to use any of these materials, please contact kerip@mit.edu

22

Audience Participation: Help us refine our measurement tool



Here is our tool for assessing cybersecurity culture maturity. Please take this survey so we can test it out:



https://bit.ly/MITOrgCultureAssessment25

© 2025 Keri Pearlson. All Rights Reserved. For copies or to use any of these materials, please contact kerip@mit.edu

Next Steps



→ Review the results of the data collected at the municipality, create report summarizing the data and offering actionable insights.

→ Modify/edit the survey and inventory if necessary (grammar, clarity, etc.) and package it for the MIT Cybersecurity Clinic.



→ Pilot test with an organization

- → Follow same process: assessment taken by multiple individuals and inventory completed by cybersecurity culture manager/leader.
- → Anyone interested in being our pilot test? (If so, please contact Keri)

© 2025 Keri Pearlson. All Rights Reserved. For copies or to use any of these materials, please contact kerip@mit.edu

24



Discussion



26

CAMS Culture Club/Human Risk Management SIG Archives



Please visit:

https://cams.mit.edu/cultureclub/

To download meeting summaries from all Culture Club SIG meetings.



THANK YOU!

We could not do the work we do without our CAMS members! Thank you for supporting our work.

More info available at: https://cams.mit.edu or

Contact Keri: kerip@mit.edu