



**CAE**  
IN CYBERSECURITY  
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# 2025 CAE Community Symposium Cybersecurity Curriculum Task Force 2.0

Cara Tang (Portland Community College)  
Tobi West (Coastline College)  
Blair Taylor & Sidd Kaza (Towson University)

2025

# Outline

- Cybersecurity Curriculum Task Force (2021 – 2024)
  - Work completed
  - Where to find curriculum
- Cybersecurity Curriculum Task Force **2.0** (2024 – 202?)
  - Work initiated
  - Opportunities

# Cybersecurity Curriculum Task Force, 2021-2024

Symposium

2025 CAE

## Task Force

- Towson University - Sidd Kaza, Blair Taylor
- Portland Community College - Cara Tang
- United States Naval Academy - John Doherty
- Cedarville University - Seth Hamman
- Coastline College - Tobi West
- Metropolitan State University - Faisal Kaleem
- University of New Haven - Tirthankar Ghosh

Symposium

## Mission

Catalog and create high-quality and relevant curricula on emerging cyber topics, mapping to curricular and workforce guidelines, and make them freely available.

<https://cyberedtaskforce.org>

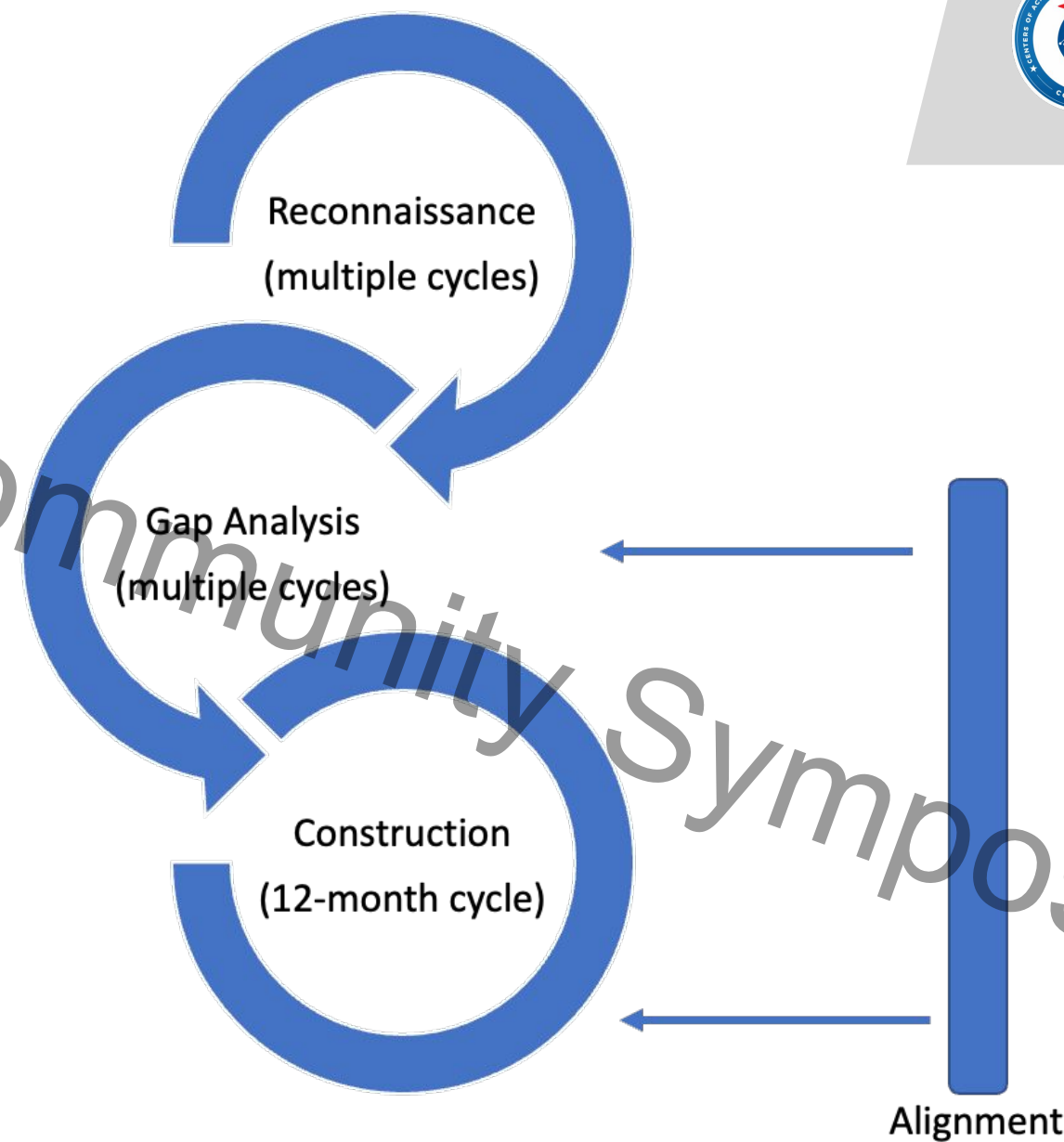




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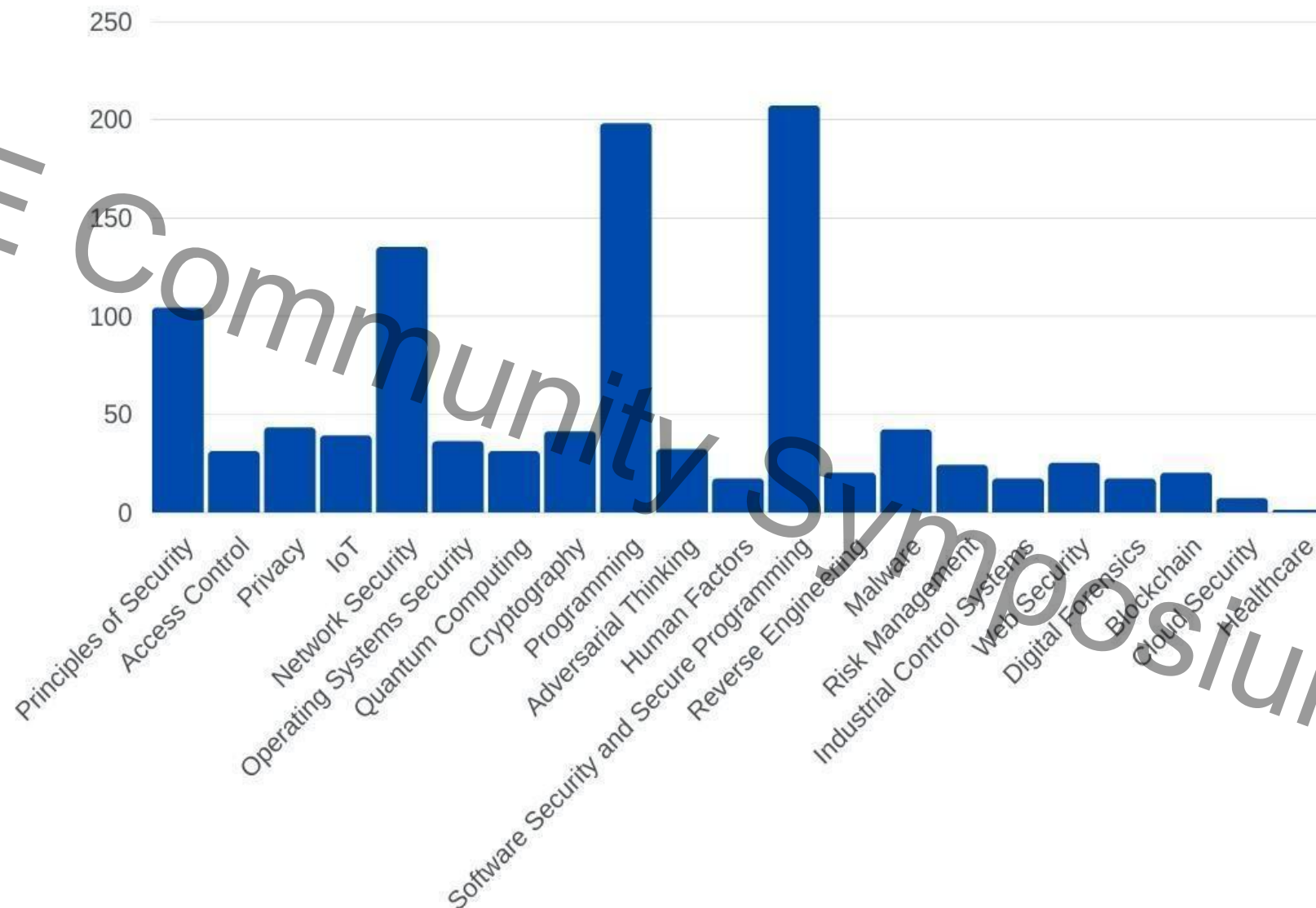
# 2025 CAE Community Symposium

## Organization



# 2025 CAE Reconnaissance

- ✓ 1300+ learning objects
- ✓ 25 topics
- ✓ 3000+ resources



# 2025 CAE Community Symposium

## Gap Analysis

- Industry focus groups
- Survey to identify top knowledge & skills in each area
  - Quantum resistant cryptography
  - Autonomous / self-driving vehicle security
  - Zero trust
  - Software supply chain security
  - Ransomware







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# 2025 CAE Construction

- Several rounds of proposals funded
- Most with a 1-year timeline
- Mid-term check
- Technical and editorial review
- Available on CLARK





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2025 CAE  
Institutions  
Funded  
(Over 600K  
Awarded)





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# 2025 CAE Construction Topics

- Zero trust security
- Ransomware
- Quantum Resistant Cryptography
- Software Supply Chain Security
- AI and LLMs for Cybersecurity
- Security for AI
- Autonomous and Connected Vehicles
- DevSecOps and Secure Software development
- Autonomous Vehicle Security
- Medical Device Security
- Ransomware: Prevention, Detection, and Recovery



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# 2025 CAE All Curriculum Available on CLARK

Part of the NSA NCAE-C Initiative collection

## Zero Trust Security

Last Updated 9/5/23

Course ★★★★★

Parent of [Zero Trust Architecture in Government Networks](#). [+ 9 more](#)

### Description

This course will explore the concepts of zero trust architecture. Students will learn the underlying concepts of zero trust. Students will learn how to plan and implement a zero trust architecture that meets regulatory requirements.

### Learning Outcomes

☁ Define zero trust principles  
No Mappings

0  
Mapped Outcomes

⚡ Configure a zero trust architecture  
No Mappings

0  
Mapped Outcomes

⚖ Manage a zero trust architecture  
No Mappings

0  
Mapped Outcomes

⚡ Analyze the different aspects of zero trust  
No Mappings

0  
Mapped Outcomes



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2025

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# Cybersecurity Curriculum Task Force 2.0

Symposium

# 2025 CAE Task Force

- Towson University – Sidd Kaza, Blair Taylor, Mahnaz Moallem
- Portland Community College – Cara Tang
- United States Naval Academy – Dennis Diaz, John Doherty
- Cedarville University – Seth Hamman
- Coastline College – Tobi West
- Metropolitan State University – Faisal Kaleem
- University of New Haven – Tirthankar Ghosh
- Tennessee Tech – Maanak Gupta
- University of Arizona – Paul Wagner



## Mission

Create high-quality and relevant curricula on emerging cyber topics, including AI and Secure Coding, mapped to the NICE and DCWF frameworks and CAE-C Knowledge Units, and make them freely available



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2025

# Framework

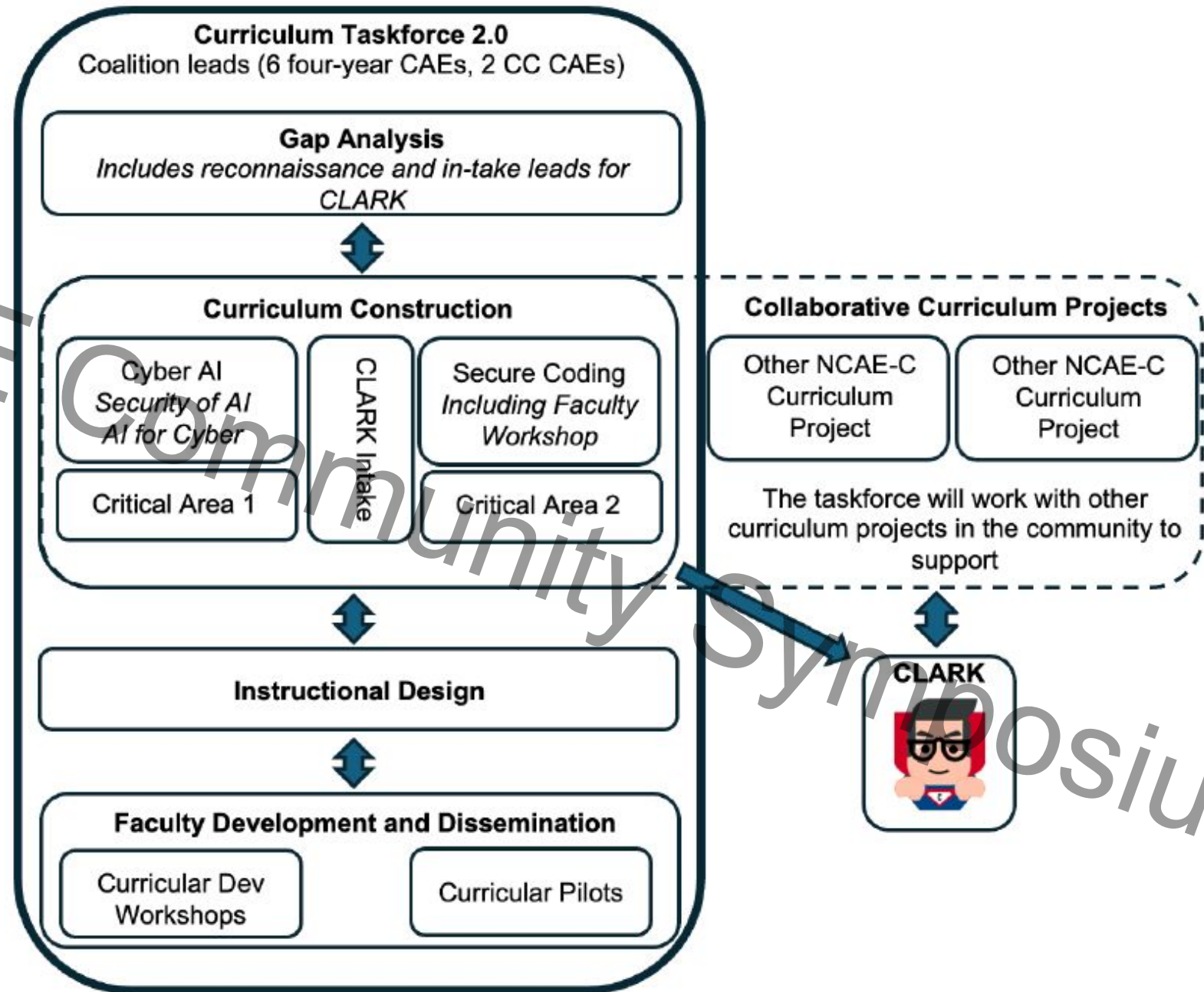
- Broaden the work of Taskforce 1.0
  - Build on successful foundation and processes
  - Identify additional high-need areas
- Develop and share high-impact curricula
  - Create and distribute high-value curricula in AI, Secure Coding, and other critical areas
- Ensure relevance and consistency with learning sciences research
  - Review and update materials
  - Incorporate instructional design best practices
- Foster collaboration with existing initiatives
  - Enhance the impact of resources and initiatives like CLARK, Competency Constructor, and NCyTE

# 2025 CAE Community Symposium

## Organization

- Gap Analysis Subcommittee
  - Identify gaps with CAE KUs and NICE & DCWF frameworks
- Construction Subcommittee
  - Develop new curricula in AI, Secure Coding, and at least 2 other topics identified by gap analysis
- Instructional Design Subcommittee
  - Work with curriculum developers to ensure research-based learning science and design principles are applied
- Faculty Development and Dissemination Subcommittee
  - Faculty development workshops, curriculum pilots, dissemination on CLARK, etc.

# 2025 CAE Organization



# 2025 CAE

## Work So Far

- Initiating processes and collaborations for curriculum in Secure Coding and AI
- Initiating gap analysis
- Relevance - micro grants for updating curriculum

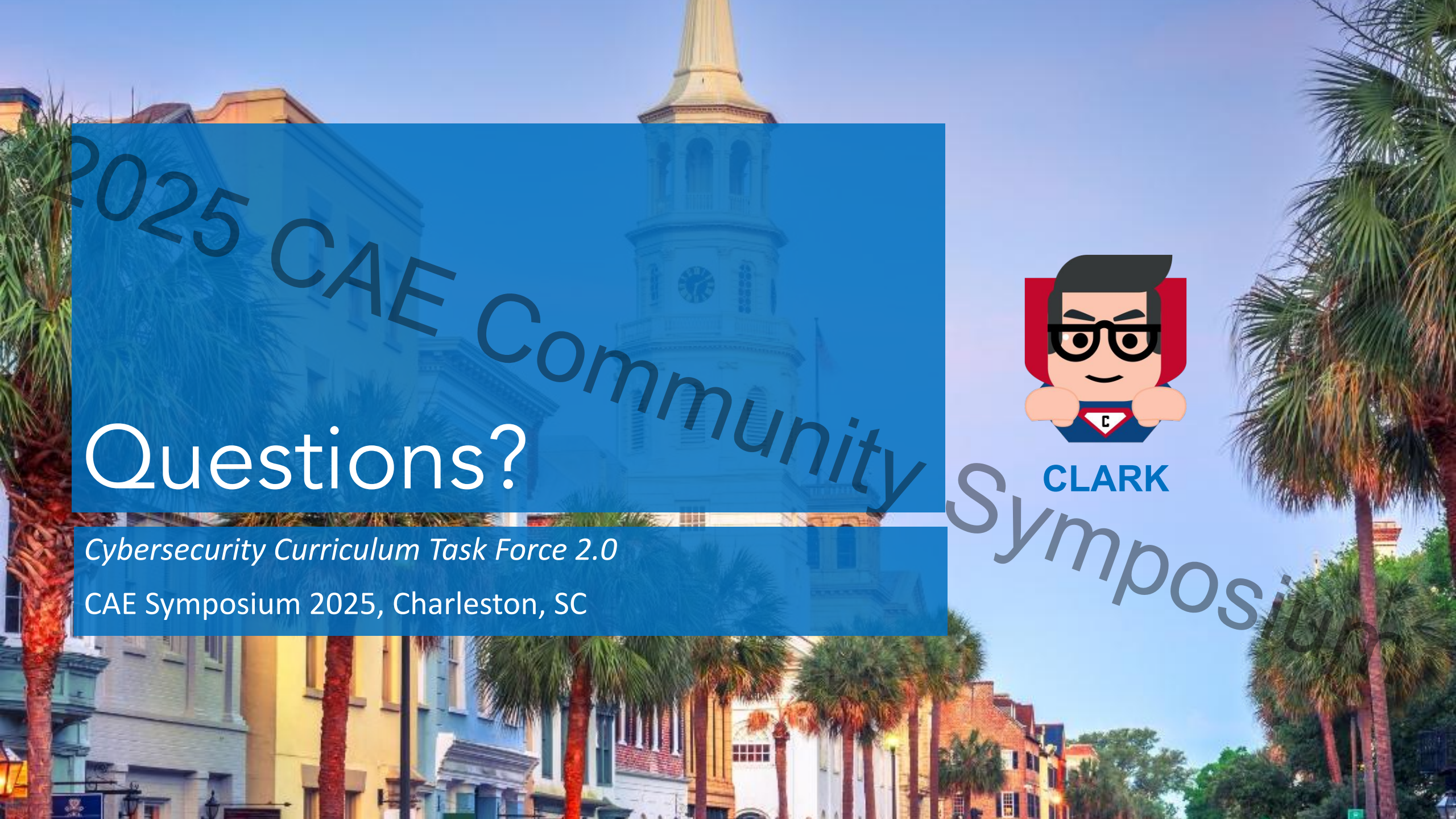


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# 2025 CAE Opportunities

- Watch for opportunities as emerging high-need, high-impact areas are identified and curriculum developers are sought
- Watch for faculty development or pilot opportunities with new curriculum
- Watch for completed curriculum to be published on CLARK

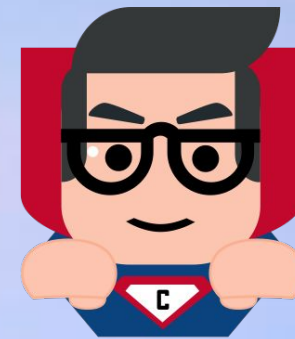




# 2025 CAE Community Questions?

*Cybersecurity Curriculum Task Force 2.0*

CAE Symposium 2025, Charleston, SC



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