

The background features a blue-toned graphic with a central globe containing a padlock icon. Surrounding the globe are several smaller padlock icons and a network of dotted lines connecting nodes. The overall theme is cybersecurity and digital protection.

Kansas Cybersecurity Task Force

Welcome

- Executive Order 21-25
- Establishing the Governor's Cybersecurity Task Force



Governor's Remarks

To listen to Governor Laura Kelly's remarks, please visit the video available at www.youtube.com/watch?v=iecDnEmKnss. Governor Kelly's remarks begin at the 4:25 mark.

Members and Introductions

State Chief Information
Technology Officer or
designee:
Secretary Dr. DeAngela
Burns-Wallace

State Chief Information
Security Officer or
designee:
Jeff Maxon, Topeka

The Adjutant General of
the Kansas National
Guard or designee:
Col. David Hewlett,
Wichita

The Attorney General or
designee:
Jay Emler, Lindsborg

The Secretary of State or
designee:
Kevin Comstock, Topeka

Representative from the
Kansas Department of
Emergency
Management:
Jonathan York, Topeka

Director of Kansas
Criminal Justice
Information System:
David Marshall, Topeka

Director of the Kansas
Intelligence Fusion
Center:
William (Bill) Glynn,
Topeka

Representative from a
municipal governments:
Mike Mayta, Wichita

Representative from the
Regents institution:
John Godfrey, Shawnee

Representative from
critical infrastructure:
Charles King, Overland
Park

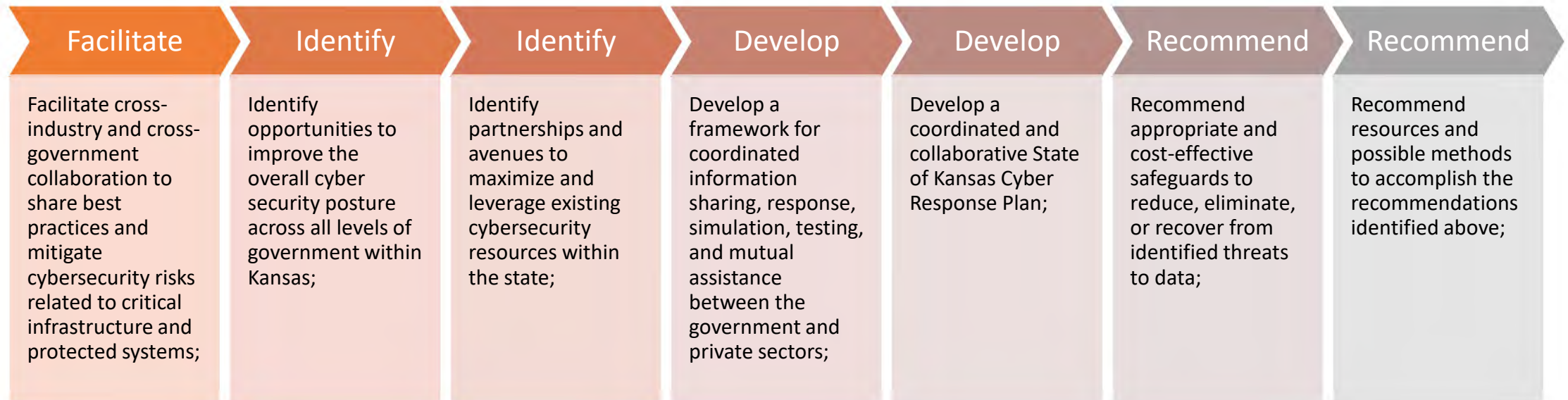
Representative from
critical infrastructure:
John Berghuis, Salina

Representative from the
Joint Committee on
Information Technology:
Representative Kyle
Hoffman, Coldwater

Representative from the
Joint Committee on
Information Technology:
Senator Jeff Pittman,
Leavenworth

Representative of county
governments:
Doug Peters, Garden City,
Finney County

Charges



Deliverables



EO WAS SIGNED JULY 13TH



WITHIN 90 DAYS OF THE DATE OF THIS ORDER, SUBMIT TO THE GOVERNOR AN INITIAL REPORT DETAILING RECOMMENDATIONS AND PROPOSALS FOR THE TASK FORCE'S FUTURE WORK.



FIRST DELIVERABLES ARE DUE FRIDAY OCTOBER 8TH, 2021



BY DECEMBER 5TH, 2021, THE TASK FORCE SHALL SUBMIT A COMPREHENSIVE REPORT AND RECOMMENDATIONS TO THE GOVERNOR.



NGA Policy Academy to Advance Whole-of-State Cybersecurity

Kansas

August 2021

The National Governors Association



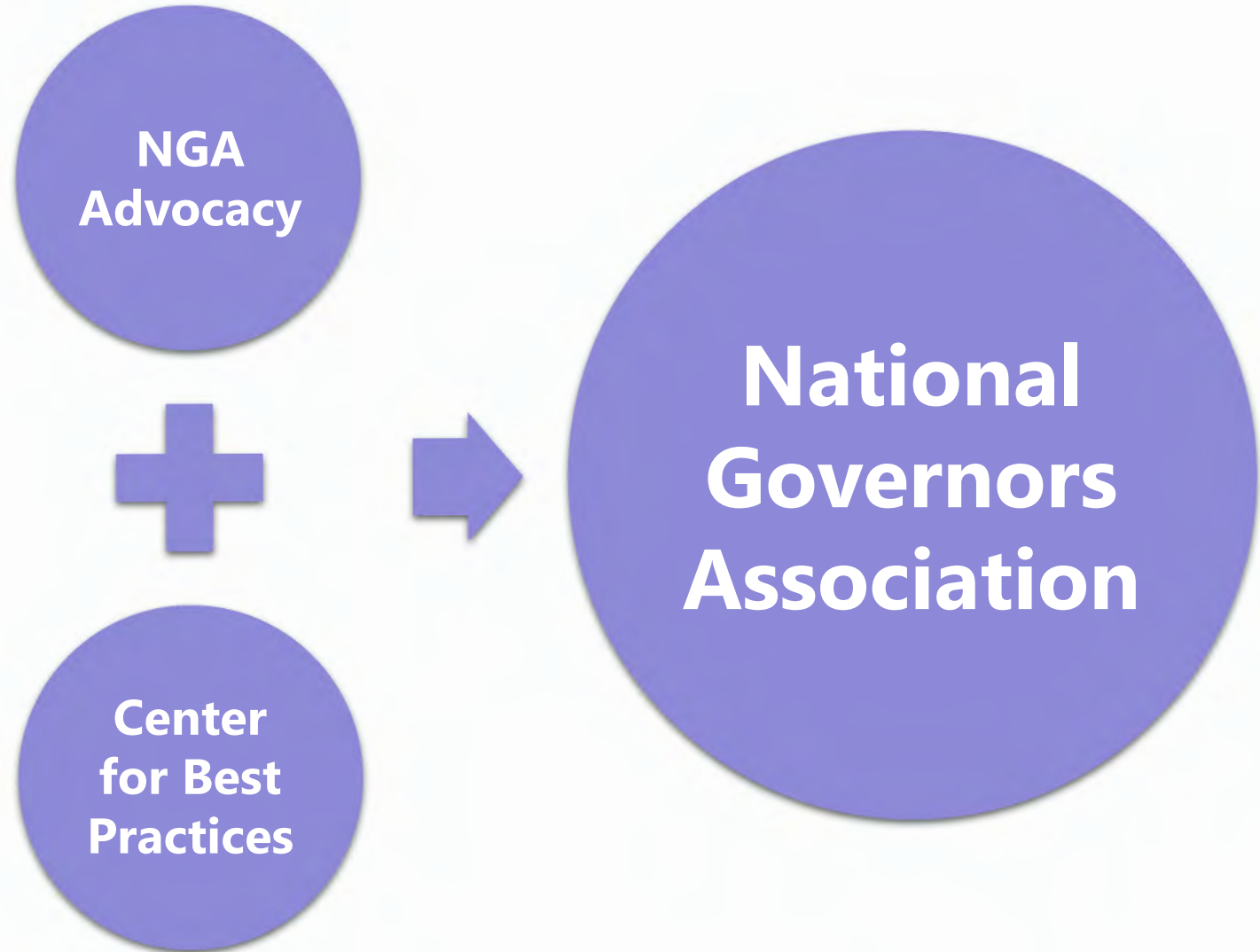
Over **100** years of serving our nation's governors

Founded in 1908, the National Governors Association (NGA) is the nonpartisan organization of the nation's 55 governors. Through NGA, governors share best practices, address issues of national and state interest and share innovative solutions that improve state government and support the principles of federalism.

The National Governors Association

Organization

The NGA Center for Best Practices is a 501(c)(3) and part of our larger organization.



The Center for Best Practices Program Areas



NGA Resource Center for State Cybersecurity



RESOURCE CENTER FOR STATE CYBERSECURITY

The significant and continued growth of cyber-attacks against the United States makes cybersecurity a critical issue for all states address the consequences of the rapidly evolving and expanding technological threats now faced by law enforcement, public works and energy agencies, private financial and communications sectors and the general public, NGA launched a Resource Center for State Cybersecurity to provide governors with resources, tools and recommendations to help craft and implement effective state cybersecurity policies and practices. To inform the work of the Resource Center, NGA is working with leading experts, practitioners, representatives from state and federal agencies and representatives from private industry to develop resources and tools and to provide strategic guidance on state cybersecurity issues.

Featured

In January 2021, the NGA Center for Best Practices hosted the Fourth National Summit on State Cybersecurity, in conjunction with Arkansas Governor Asa Hutchinson. Videos from select sessions are available in a [playlist on YouTube](#), or by watching below.



Resource Center Co-Chairs



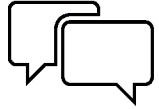
Governor Asa Hutchinson



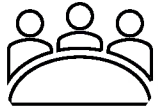
Governor John Bel Edwards

<https://www.nga.org/statecyber/>

How We Work With States



Policy Academies: Over a year long engagement, the program supports governor-appointed teams in developing and implementing strategic plans designed to address critical state policy challenges.



Policy Institutes and Workshops: The program hosts an annual policy institute for governors' criminal justice policy advisors and other workshops on specific topics to bring governors' staff together with subject-matter experts to exchange ideas and identify best practices.



Conference Calls and Webinars: The program regularly hosts conference calls and webinars to highlight new and emerging issues and provide a forum for peer-to-peer exchange.



Publications: Practical materials to inform governors' offices about available policy options to address pressing public criminal justice and public safety issues.



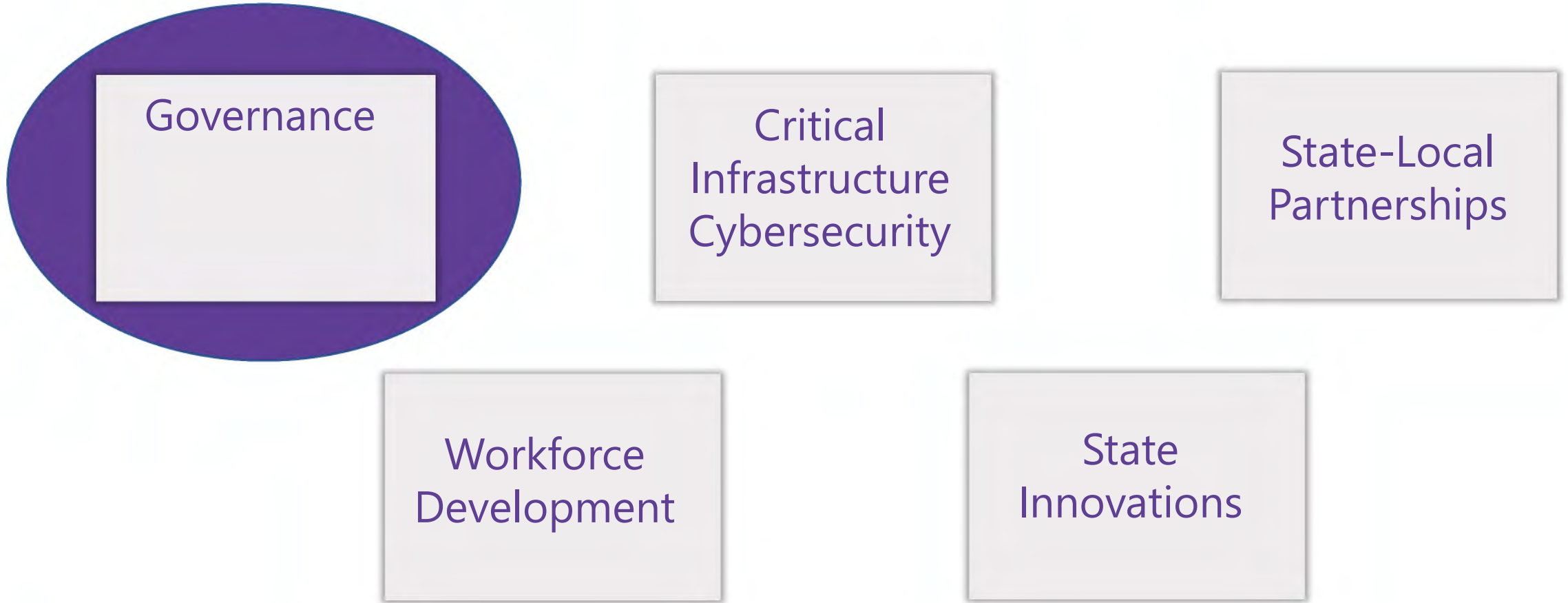
Technical Assistance: Staff can provide tailored assistance to governors' offices upon request. Assistance can come in a variety of forms, including brief confidential memos addressing a specific policy question, comments on draft legislation or regulations as related to best practices, consultations on a policy development process or access to outside experts.

What is a Policy Academy Anyways?

- Definition: Year-long engagement with NGA to provide in-depth technical assistance.
- States selected on competitive process.
 - Most competitive to date!



Application: Priority Areas



NGA's 2021 Policy Academy to Advance Whole-of-State Cybersecurity

Governance

Workforce
Development

State-Local
Partnerships



Policy Academy Benefits:

- Subject Matter Expertise
- Neutral, Third-Party Facilitation
- Provides Impetus for Action
- “Pilot State” – Outcomes Serve as a National Model



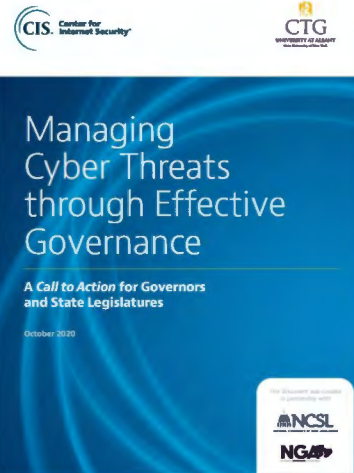
Policy Academy Activities :

What?	Who?	When?
Preparation and Kickoff	Core Team & Home Team	✓
Research, Learning Calls, Technical Assistance	Core/Home Team Members as Relevant	Throughout Project Period – as needed basis
Virtual Check-Ins	Core Team	Throughout Project Period – biweekly basis
Cohort Convenings (Virtual)	Core Team	Throughout Project Period – monthly basis
1 st In-State Strategic Planning Workshop (Virtual)	Core Team & Home Team	April – July 2021
2 nd In-State Strategic Planning Workshop (In-Person)	Core Team & Home Team	August – December 2021
Wrap Up	Core Team	December 2021 – January 2022



Cybersecurity Governance

- Definition: the processes by which decisions are made about cybersecurity risk.
- No “One-Size-Fits All” Approach
- Limited Academic/Scientific Research



CIS [White Paper](#) on Managing Cyber Threats Through Effective Governance

DHS-NASCIO Cybersecurity Governance [Case Studies](#)

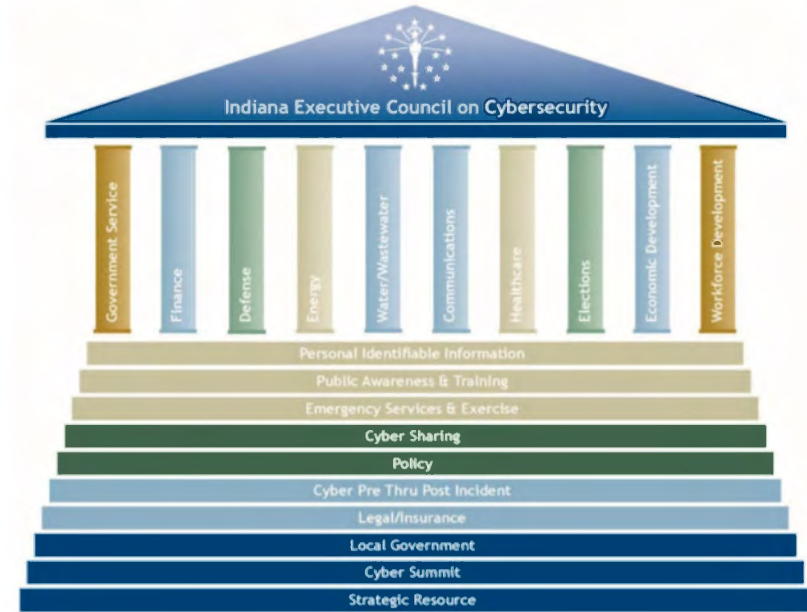


Cybersecurity Governance: State Examples

Louisiana Cybersecurity Commission



Indiana Executive Council on Cybersecurity



Cybersecurity Governance: State Examples

Cal Cybersecurity Taskforce & CAL CSIC



New Jersey CCIC



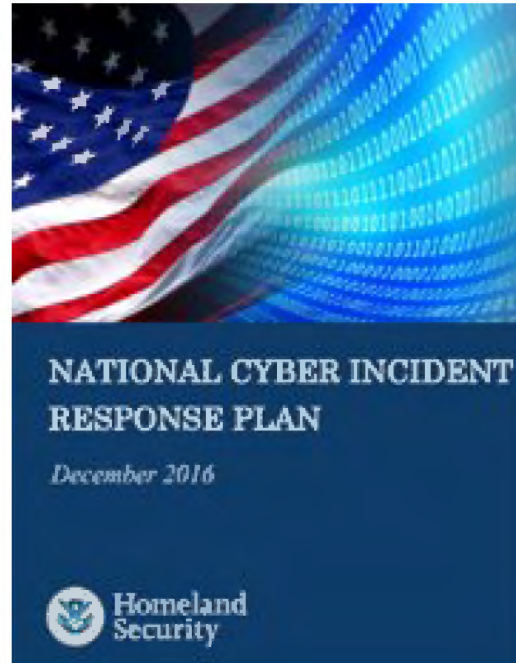
NJCCIC



Cyber Disruption Response Planning

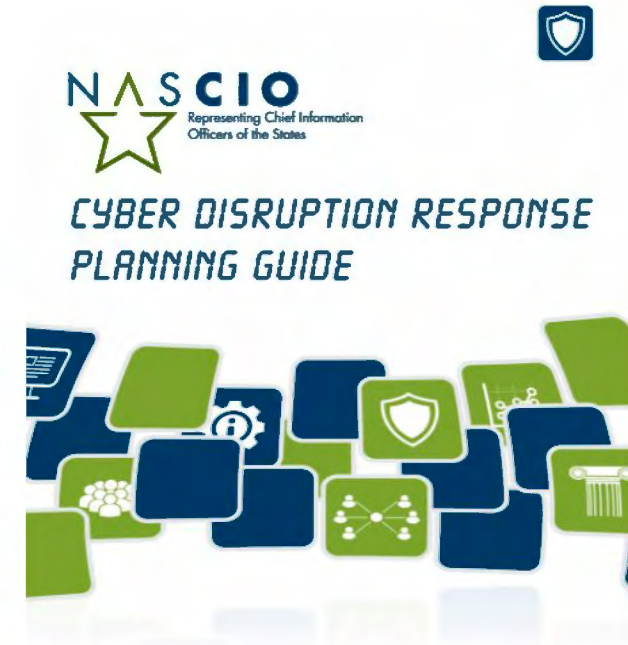


[NGA MEMO](#): State Cyber Disruption Response Plans



DHS National Cyber Incident Response Plan ([NCIRP](#)) & [PPD-](#)

[41](#)



[NASCIO GUIDE](#): Cyber Disruption Response Planning Guide



Threat Matrices/Escalation Protocol

Figure 1: Cyber Incident Severity Schema

Description	Disaster Level	Cyber Incident Severity	Description	Observed Actions
Due to its severity, size, location, actual or potential impact on public health, welfare, and infrastructure it requires an extreme amount of federal assistance for response and recovery efforts for which the capabilities to support do not exist at any level of government.	Level 1	Level 5 <i>Emergency</i>	Poses an imminent threat to the provision of wide-scale critical infrastructure services, national government security, or the lives of US citizens.	Effect
Requires elevated coordination among federal and SLTT governments due to moderate levels and breadth of damage. Significant involvement of FEMA and other federal agencies.	Level 2	Level 4 <i>Severe</i>	Likely to result in a significant impact to public health or safety, national security, economic security, foreign relations, or civil liberties.	Presence
		Level 3 <i>High</i>	Likely to result in a demonstrable impact to public health or safety, national security, economic security, foreign relations, civil liberties, or public confidence.	
Requires coordination among federal and SLTT governments due to minor to average levels and breadth of damage. Typically, this is primarily a recovery effort with minimal response requirements.	Level 3	Level 2 <i>Medium</i>	May impact public health or safety, national security, economic security, foreign relations, civil liberties, or public confidence.	Engagement
		Level 1 <i>Low</i>	Unlikely to impact public health or safety, national security, economic security, foreign relations, civil liberties, or public confidence.	
No event or incident anticipated. This includes routine watch and warning activities.	Level 4	Level 0	Unsubstantiated or inconsequential event.	Steady State

Source: Presidential Policy Directive 41, United States Cyber Incident Coordination.

How have states operationalized this?
Ex: North Carolina

CYBER DISRUPTION ESCALATION PROTOCOL			
LEVEL	COLOR	DESCRIPTION / IMPACT	BASELINE CYBER SUPPORT
Emergency	Black	Poses an imminent threat to the provision of wide-scale critical infrastructure services, State government stability, or the lives of North Carolina residents.	State of Emergency is declared. Full Cyber package which may contain National Guard, Private Sector, State and Federal Cyber resources. EMAC support may be requested. Incident reporting by affected party is mandatory.
Severe	Red	Likely to result in a significant impact to public health or safety, economic security, foreign relations, or civil liberties. Involvement of any actual, suspected, or potential breach of bulk Restricted or Confidential Data.	State of Emergency is declared. Full Cyber package which may contain National Guard Defensive Cyber Operations, Private Sector and State Cyber resources. Incident reporting by affected party is mandatory.

DHS National Cyber Incident Response Plan ([NCIRP](#)) & [PPD-](#)

[41](#)



Responsibilities Associated w/ CDR

Table 1: NCIRP Lines of Effort¹³

Threat response	Asset response	Intelligence support	Affected entity response
<ul style="list-style-type: none">• Investigative, forensic, analytical and mitigation activities.• Interdiction of a threat actor.• Providing attribution.	<ul style="list-style-type: none">• Furnishing technical support to affected entities.• Mitigating vulnerabilities, identifying additional at-risk entities.• Assessing affected entities' risk to the same or similar vulnerabilities.	<ul style="list-style-type: none">• Activities to better understand the cyber incident and existing targeted diplomatic, economic or military capabilities to respond.• Sharing threat and mitigation information with other potentially affected entities or responders.	<ul style="list-style-type: none">• Maintaining business or operational continuity.• Mitigating potential health and safety impacts.• Addressing adverse financial impacts.• Protecting privacy• Managing liability risk; complying with legal and regulatory requirements (including disclosure and notification).• Engaging in communications with employees or other affected individuals.• Managing external affairs.

1. Threat
2. Asset
3. Intel
4. Entity

NGA Memo on State Cyber Disruption Response Plans: https://www.nga.org/wp-content/uploads/2019/04/IssueBrief_MG.pdf



Lessons Learned from AARs

COLORADO SAMSAM ATTACK ON CDOT

- ❖ March 2018
- ❖ Implemented ICS
- ❖ Activated National Guard
- ❖ EMAC request for cyber personnel
- ❖ Public AAR



LOUISIANA SCHOOL DISTRICT RANSOMWARE

- ❖ July 2019
- ❖ First instance of declaration for a local entity
- ❖ Activated National Guard
- ❖ Used private sector volunteers
- ❖ Coordinated through GOHSEP



Contact

John Guerriero
Acting Program Director
Cybersecurity Program
Jguerriero@nga.org



Questions?



Kansas
Cybersecurity
Landscape



KANSAS

Webroot Riskiest State Surveys

- 2018: 41st
- 2019: 44th
- 2020: 20th

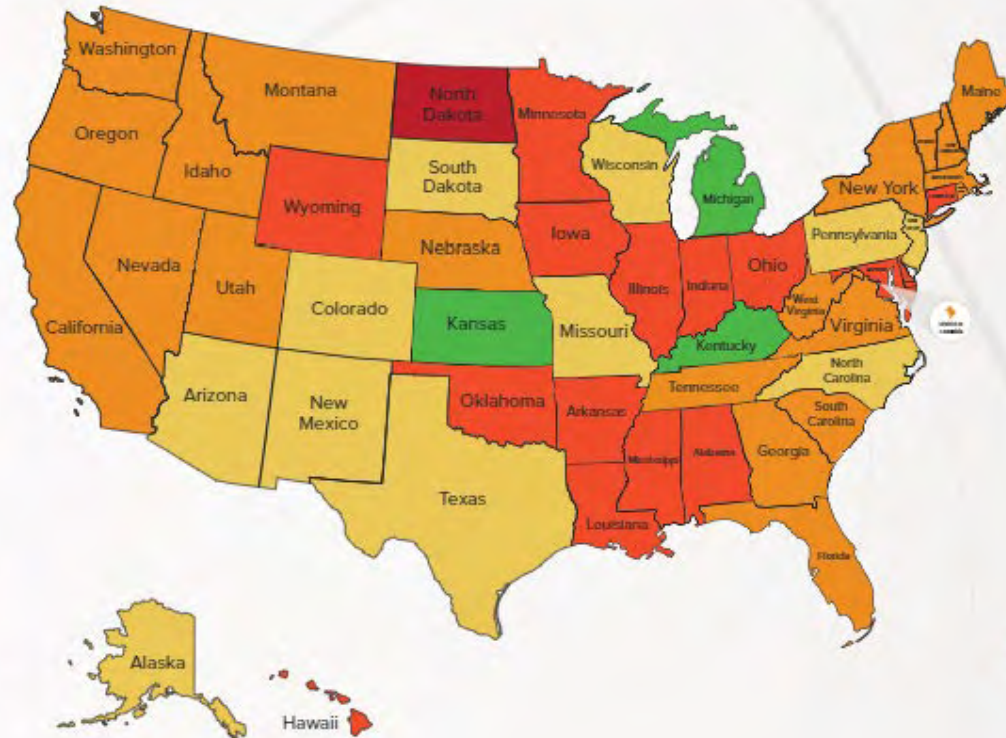
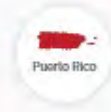




SecurityScorecard

State of the States

SecurityScorecard reviews overall cybersecurity posture, including election-related infrastructure, of all 56 U.S. states and territories



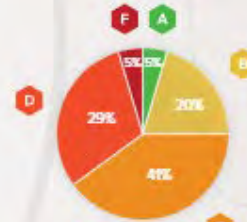
A > 90

B 80 - 89

C 70 - 79

D 60 - 69

F < 60



Kansas Cybersecurity Legislation

21: Crimes and Punishment

- 21-5839. Unlawful acts concerning computers.

48: Militia, Defense and Public Safety

- 48-3701. Kansas Intelligence Fusion Center Act. 48-3701 through 48-3710,.

50: Unfair Trade and Consumer Protection

- 50-7a01. Consumer information; security breach; definitions50-50-7a02. Security breach; requirements

75: State Departments; Public Officers and Employees

- 75-7236. Kansas cybersecurity act. K.S.A. 75-7236 through 75-7243

Kansas Information Security Office

Established in 2018

Supports executive branch information security programs

Protects state enterprise network

Collaborate with external partners to enhance security posture

Assist agencies in preparing for and responding to cyber incidents



Kansas Bureau of Investigation

Established a cyber crimes unit
in 2019

Respond to and pursue criminal
cases for various cyber events

Collaborate with federal
partners

Kansas Division of Emergency Management

- Maintains and Manages the Kansas Response Plan
- Kansas Response Plan provides policy and guidance for emergency management
- Describes procedures for responding to an emergency
- Contains procedures for various types of incident



Kansas Intelligence Fusion Center

Partnership between the Attorney
General's Office and Adjutant
General's Department

Intelligence analysis and sharing

Partners with critical
infrastructure and public entities

Kansas National Guard

- Defensive Cyber Operations Element
- 184th Cyberspace Operations Group
 - 299th Network Operations Security Squadron
 - 177th Information Aggressor Squadron (Red Team)
 - 127th Cyberspace Operations Squadron (Blue Team)



Critical Infrastructure in Kansas



Cybersecurity Programs in Kansas

- Butler Community College
- Fort Hayes State University
- Friends University
- Johnson County Community College
- Kansas City Kansas Community College
- Kansas State University
- University of Kansas
- University of Saint Mary
- Wichita State University

NSA/DHS Centers Academic Excellence



School	Designation
Butler Community College	Cyber Defense Education
Johnson County Community College	Cyber Defense Education
Kansas State University	Research
University of Kansas	Cyber Defense Education, Research
Wichita State University	Cyber Defense Education

Higher Education Research

- University of Kansas is one of the six Science of Security Labeleds funded by the NSA Research Directorate to conduct foundational research in cybersecurity
- Kansas State University Center for Information and System Assurance conducts fundamental and applied research in information assurance and computer security





WSU Ennovar Technology Solutions

- Applied learning model
 - Cybersecurity
 - Development
 - Technical Support

Kansas
Department
of
Commerce

Identified professional and technical services as a target sector for accelerated growth in Kansas

Provided Grant in 2020 to examine opportunities for economic growth from cybersecurity in Kansas

Cybersecurity Job Market



Total cybersecurity job openings: 2,535



Estimated employed cybersecurity workforce: 6,543



Workforce supply to demand ratio: 2.6



Average Salary \$75,000

Developing the Bigger Picture

- High level overview from the state perspective
- Gap in visibility of cross industry collaboration
- Gap in visibility of cross government collaboration at varying levels
- Power of task force is to build that multi-level visibility by bringing in other perspectives

Summary

A lot of cybersecurity efforts and progress in Kansas

Significant cybersecurity opportunity

Attack frequency and sophistication are increasing

Varying disruptions and impacts from cyber attacks

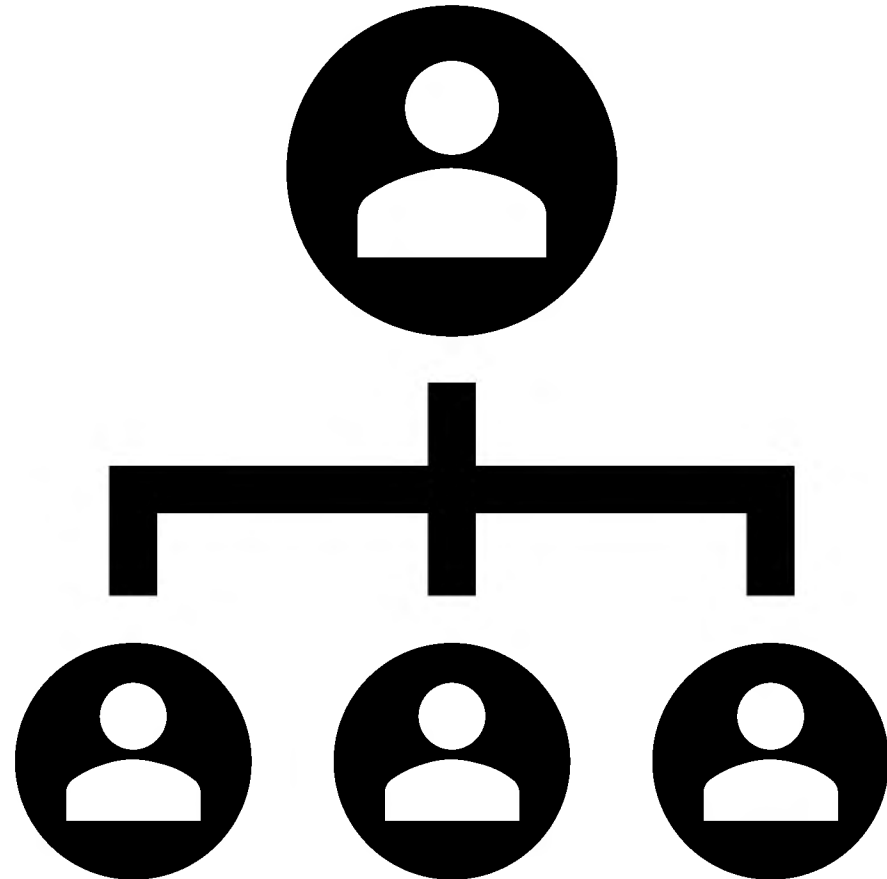
How do we bring together all of our efforts to ensure Kansas is secure and resilient?

Think Strategically

- Think "Whole-of-State"
- Recommendations should be actionable
- Propose resources needed to execute on recommendations

Format of Task Force

- Co Chairs
- Four subcommittees
- Chair for each subcommittee



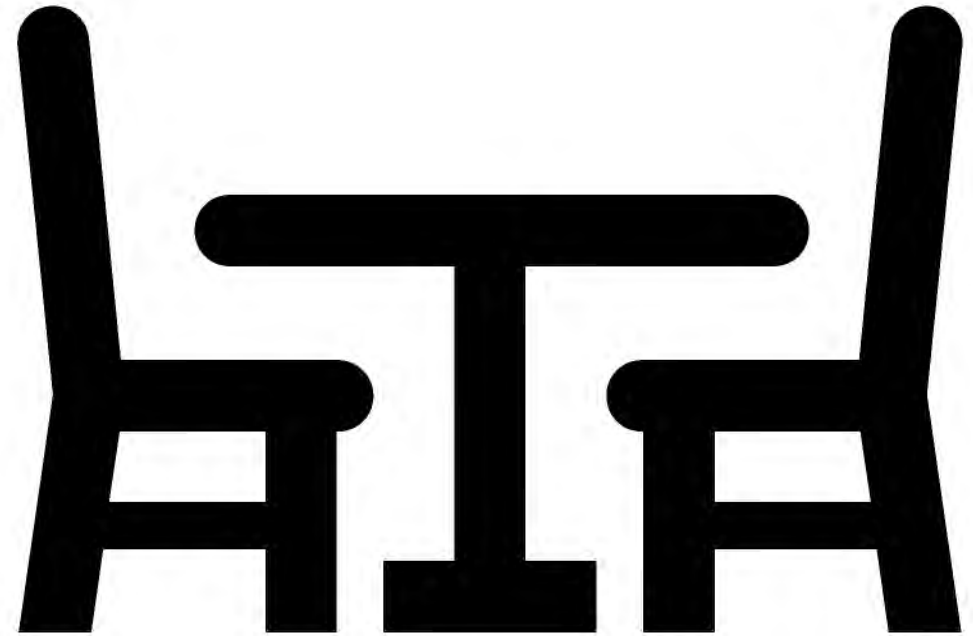
Subcommittee Responsibilities

- Establish regular working cadence
- First recommendations due to Task Force by Monday Sept 27th for compilation and drafting of report



Chairs

- Mike Mayta: CIO, City of Wichita
- Jeff Maxon: CISO, State of Kansas



Subcommittees

- Strategic Visioning and Planning
- Statewide Coordination and Collaboration
- Cyber Incident and Disruption Response
- Workforce Development and Education

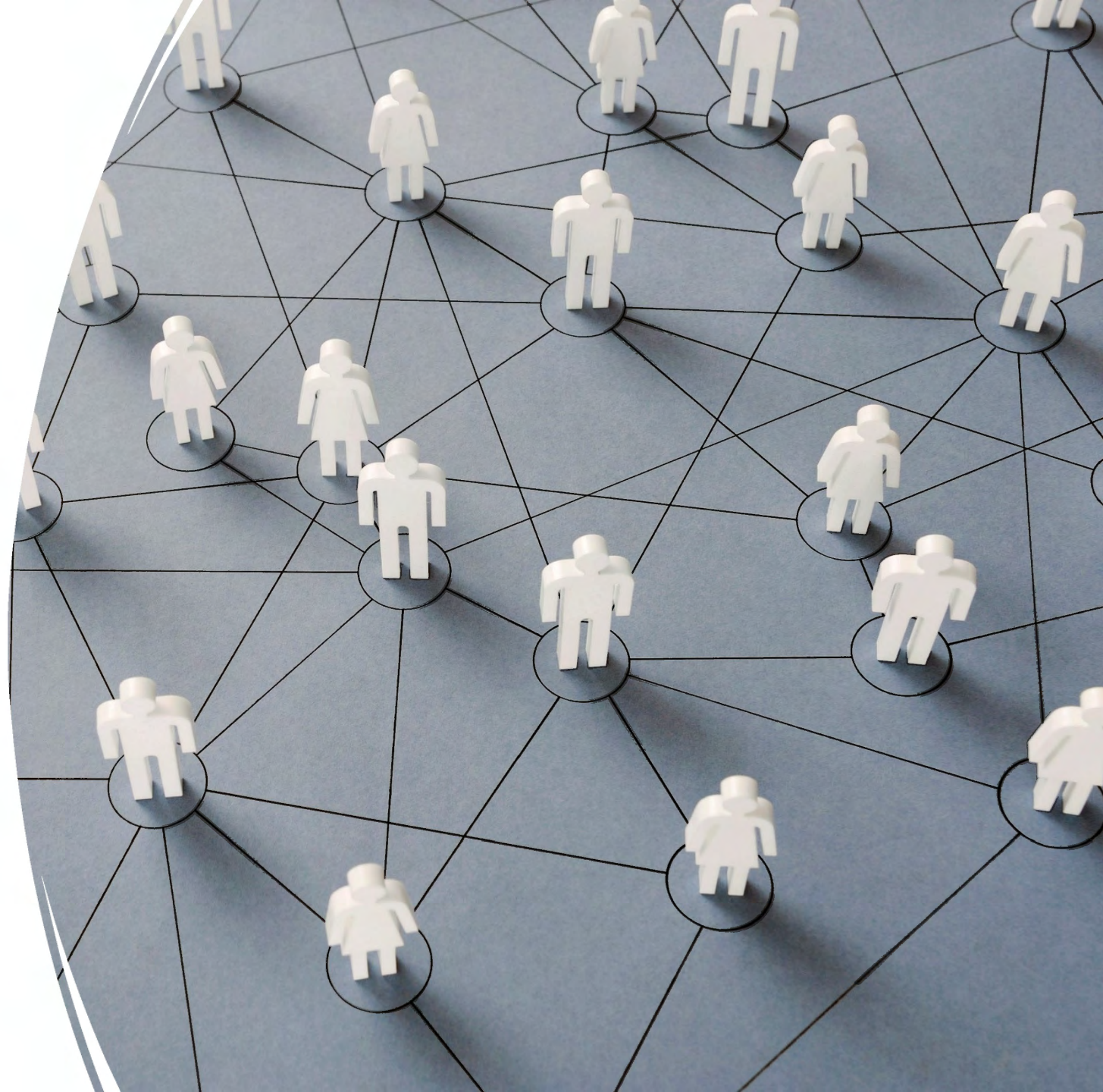


Strategic Vision and Planning

- **Goal:** Identify key needs and develop components for a holistic statewide strategic plan for advancing cybersecurity in the State of Kansas

Statewide Coordination and Collaboration

- **Goal:** Identify, facilitate, and make recommendations to develop successful cross-government and cross-industry collaboration and coordination efforts to further cybersecurity within the State of Kansas



Cyber Incident and Disruption Response

- **Goal:** Identify key resources and components needed for a coordinated and collaborative cybersecurity response annex to the Kansas Response Plan



Workforce Development and Education

- **Goal:** Identify and make recommendations on ways to grow Kansas's cybersecurity workforce, educational and economic opportunities



Next Steps

Subcommittee
Assignments

Selection of
subcommittee chairs

Scheduling of
subcommittee meetings

Administrative Details

- KOMA and KORA
- SharePoint will serve as a repository for research and documents
- Points of Contact:
 - Allie Denning: allie.denning@ks.gov
 - Samir Arif: samir.arif@ks.gov



Closing Remarks

