



AUTO-ISAC

MONTHLY COMMUNITY CALL

June 2020



COVID-19

OUR THOUGHTS AND PRAYERS GO OUT TO ALL THOSE AFFECTED BY COVID-19. WE ARE VERY GRATEFUL TO OUR MEMBERS AND PARTNERS FOR THEIR CONTINUED SUPPORT AND ENGAGEMENT DURING THESE UNPRECEDENTED TIMES. IF WE CAN ASSIST IN ANY MANNER, PLEASE LET US KNOW HOW WE MIGHT HELP.



AGENDA

Time (ET)	Topic
11:00	Welcome <ul style="list-style-type: none"> ➤ Why we're here ➤ Expectations for this community
11:05	Auto-ISAC Update <ul style="list-style-type: none"> ➤ Auto-ISAC overview ➤ Heard around the community ➤ What's Trending
11:15	<i>DHS CISA Community Update</i>
11:20	Featured Speaker: Randy Sandone, Executive Director of Critical Infrastructure Resilience Institute (CIRI), Information Trust Institute (funded by DHS) at University of Illinois, Urbana.
11:45	Around the Room <ul style="list-style-type: none"> ➤ Sharing around the virtual room
11:55	Closing Remarks

WELCOME - AUTO-ISAC COMMUNITY CALL!

Purpose: These monthly Auto-ISAC Community Meetings are an opportunity for you, our Members & connected vehicle ecosystem Partners, to:

- ✓ *Stay informed of Auto-ISAC activities*
- ✓ *Share information on key vehicle cybersecurity topics*
- ✓ *Learn about exciting initiatives within the automotive community from our featured speakers*

Participants: Auto-ISAC Members, Potential Members, Strategic Partners, Academia, Industry Stakeholders, and Government – *the whole of the automotive industry*

Classification Level: TLP GREEN: may be shared within the Auto-ISAC Community, and “off the record”

How to Connect: For further info, questions, or to add other POCs to the invite, please contact us! (fayefrancy@automotiveisac.com)

ENGAGING IN THE AUTO-ISAC COMMUNITY

❖ Join

- ❖ If your organization is eligible, apply for Auto-ISAC membership
- ❖ If you aren't eligible for membership, connect with us as a partner
- ❖ Get engaged – *“Cybersecurity is everyone's responsibility!”*

19
*Navigator
Partners*

12
*Innovator
Partners*

❖ Participate

- ❖ Participate in monthly virtual conference calls (1st Wednesday of month)
- ❖ If you have a topic of interest, let us know!
- ❖ Engage & ask questions!

20
OEM Members

❖ Share – *“If you see something, say something!”*

- ❖ Submit threat intelligence or other relevant information
- ❖ Send us information on potential vulnerabilities
- ❖ Contribute incident reports and lessons learned
- ❖ Provide best practices around mitigation techniques

36 *Supplier &
Commercial
Vehicle Members*

*Membership represents **99%**
of cars on the road in North
America*

*Coordination with **23**
critical infrastructure ISACs
through the National Council of
ISACs (NCI)*

AUTO ISAC – 2020 WAY FORWARD

RE-EVALUATION OF STRATEGY & MISSION

*Who We Are &
Why We Are Here*

MISSION: *To strengthen the global automotive industry against cyber threats and enhance cyber attack resilience and response. **An attack on one is an attack on all.***



Timely Sharing of
Threat & Vulnerability
Information



Building
Strong
Relationships



Developing
Effective
Response Plans



Ensuring & Maturing
Consistent Cyber
Capability

Each Member is expected to: Trust, Share, Teach, Learn, Act

We are a **technical organization**, serving membership by enabling **cyber learning and capability development**. As members, we are expected to both **share and learn**, and continue to strengthen capabilities to protect our customers. ***We will hold ourselves accountable.***

Auto ISAC – 2020 Way Forward

ROLES, RESPONSIBILITIES
& METRICS

*Measuring
Success*

VALUE STREAMS & PERFORMANCE INDICATORS

Top Line Goal: Zero safety related cyber events in the industry



INFO SHARING & AWARENESS

% Participation
Sharing / Platform /
Attendance

EDUCATION

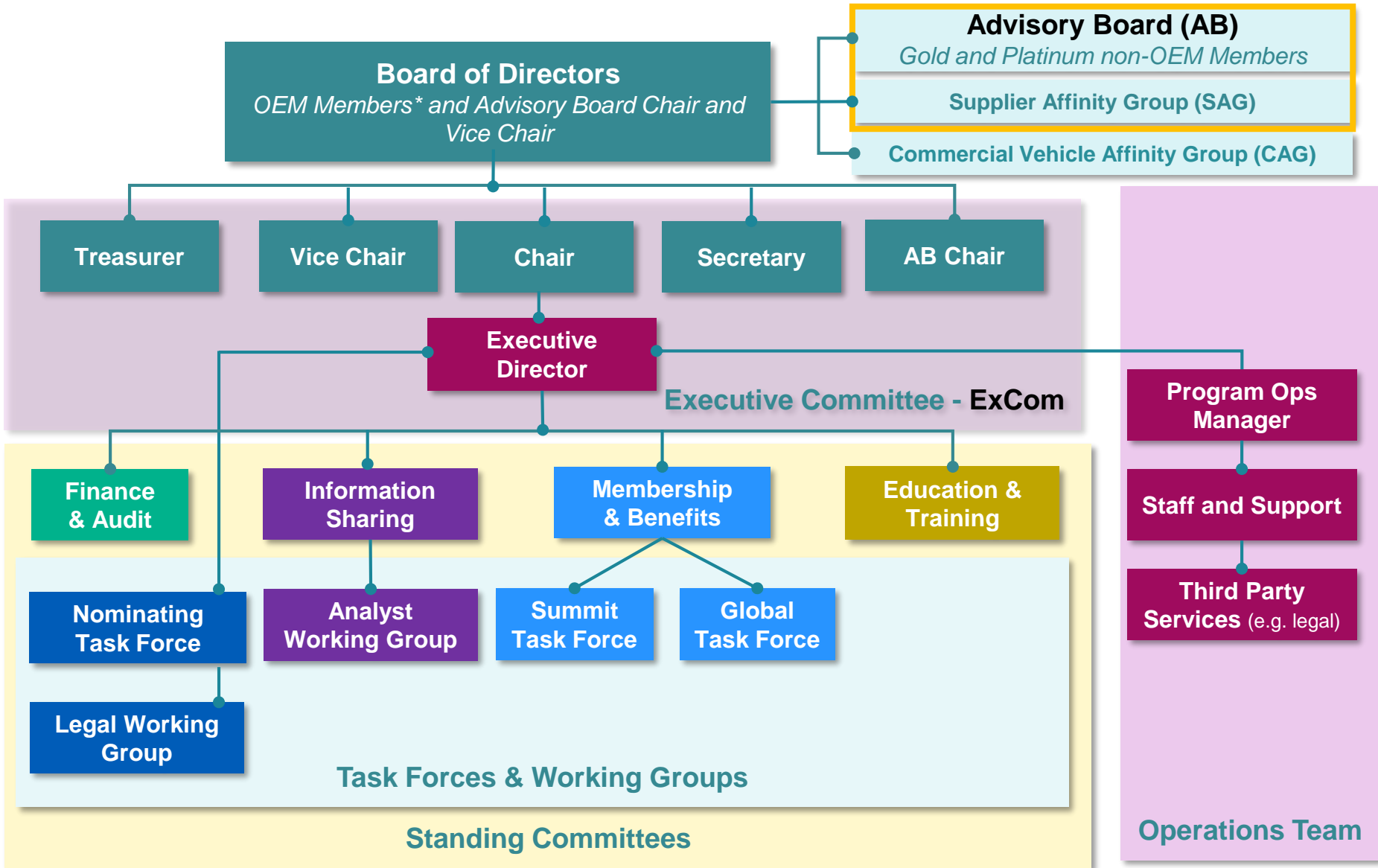
% Taking Educational
Offerings
Maturity Surveys

RELATIONSHIPS

% Member Satisfaction
with value added
relationships

Bottom Line Goal: *Automotive Cybersecurity Resiliency Across Industry!*

AUTO-ISAC OPERATING MODEL



2020 BOARD OF DIRECTORS

EXECUTIVE COMMITTEE (ExCom)



Kevin Tierney
Chair of the
Board of the Directors
GM



Josh Davis
Vice Chair of the
Board of the Directors
Toyota



Jenny Gilger
Secretary of the
Board of the Directors
Honda



Tim Geiger
Treasurer of the
Board of the Directors
Ford



Todd Lawless
Chair of the
Advisory Board
Continental

2020 ADVISORY BOARD (AB) LEADERSHIP



Todd Lawless
Chair of the
Advisory Board
Continental



Brian Murray
Vice Chair of the
Advisory Board
ZF



Kevin Walker
Chair of the SAG
Aptiv



Larry Hilkene
Chair of the CAG
Cummins

MEMBER ROSTER

AS OF JUNE 2, 2020

Highlighted = Change

Aisin	Honda	Oshkosh Corp
Allison Transmission	Hyundai	PACCAR
Aptiv	Infineon	Panasonic
AT&T	Intel	Qualcomm
Blackberry Limited	Kia	Renesas Electronics
BMW Group	Knorr Bremse	Subaru
Bosch	Lear	Sumitomo Electric
Continental	LGE	Tokai Rika
Cummins	Magna	Toyota
Denso	MARELLI	TuSimple
Delphi Technologies	Mazda	Valeo
FCA	Mercedes-Benz	Veoneer
Ford	Mitsubishi Motors	Volkswagen
Garrett	Mitsubishi Electric	Volvo Cars
General Motors	Mobis	Volvo Group
Geotab	Navistar	Waymo
Google	Nexteer Automotive Corp	Yamaha Motors
Harman	Nissan	ZF
Hitachi	NXP	TOTAL: 56

2020 AUTO-ISAC STAFF



Faye Francy (ED)



Josh Poster (PoM)



Ricky Brooks, II (IO)



Jake Walker (CIA)



Lisa D. Scheffenacker (BA)



Sharmila Khadka (EoS)



Julie Kirk (BK)



Linda Rhodes (LC)



Callen Mackey (CPA)



Paul Hart (IT)

External Support Staff

AUTO-ISAC ACTIVITIES

Auto-ISAC

- Automotive industry retooling for critical COVID19 work *Thank you!*
- Advisory Board & Board of Directors Meeting To Be Held Virtually June 25
- Auto-ISAC Member Incident Response Plan (IRP) Reviews *Completed!*
- Auto-ISAC Member IRP Drills *Month of June*
- Auto-ISAC Member TableTop Exercise (TTX) *Going Virtual*
- CyberStorm 2020 postponed
- We are *cautiously optimistic* we'll hold Auto-ISAC Summit – registration, call for papers, and sponsorships on website – www.automotiveisac.com

Stay safe, secure and well!

AUTO-ISAC SUMMIT – OCT 14-15

AUTO-ISAC
SUMMIT

2 days

400 attendees



Oct. 14-15,
2020
Detroit, MI

ABOUT THE AUTO-ISAC SUMMIT:

The 2020 Auto-ISAC Summit hosted by General Motors connects global automotive industry insiders during two days of transformative conversations around cyber attack resilience and response.



Registration is Open | Call for Papers (due 6/30) | Sponsor Prospectus

WHAT'S TRENDING?

[Researchers Analyze Entry Points, Vectors for Manufacturing System Attacks](#) Researchers from cybersecurity firm Trend Micro and the Polytechnic University of Milan have analyzed the possible entry points and vectors for attacks targeting smart manufacturing environments, and they discovered several new vulnerabilities in the process. The study, which resulted in a 60-page report, looked at three main points of entry: engineering workstations, custom industrial internet-of-things (IIoT) devices, and manufacturing execution systems (MES).

[Mercedes-Benz Onboard Logic Unit \(OLU\) Source Code Leaks Online](#) The source code for "smart car" components installed in Mercedes-Benz vans has been leaked online over the weekend, ZDNet has learned. The leak occurred after Till Kottmann, a Swiss-based software engineer, discovered a Git web portal belonging to Daimler AG, the German automotive company behind the Mercedes-Benz car brand. Kottmann told ZDNet that he was able to register an account on Daimler's code-hosting portal, and then download more than 580 Git repositories containing the source code of onboard logic units (OLUs) installed in Mercedes vans.

[Memory Corruption Vulnerability in GNU Glibc Leaves Smart Vehicles Open to Attack](#) During some recent research, Cisco's Customer Experience Assessment & Penetration Team (CX APT) discovered a memory corruption vulnerability in GNU libc for ARMv7, which leaves Linux ARMv7 systems open to exploitation. This vulnerability is identified as TALOS-2020-1019/CVE-2020-6096. In this case, Cisco uncovered a vulnerability in the ARMv7 implementation of memcpy() that was able to cause the program to enter an undefined state and allow for the conditions of remote code execution in the target application. Ultimately, this vulnerability in memcpy() causes program execution to continue in scenarios where a segmentation fault or crash should have occurred. This unexpected behavior can result in a scenario where program execution continues with corrupted runtime state leading to exploitation opportunities.

For more information or questions please contact analyst@automotiveisac.com

CISA RESOURCE HIGHLIGHTS



Upcoming CISA Events:

- ESF-14 COVID-19 Conference Calls:
 - Tuesdays from 3:00PM-4:15PM EST **until further notice**
 - Participant dial-in is 1-800-593-7177, Participant PIN is 7963614#
- ICSJWG 2020 Virtual Spring Meeting – June 9-10, 2020
 - Registration closes on Friday June 5, 2020
 - Registration site:
[https://gateway\[.\]on24\[.\]com/wcc/gateway/eliteCSRALLCamanagedaffiliate/2360375](https://gateway[.]on24[.]com/wcc/gateway/eliteCSRALLCamanagedaffiliate/2360375)



TLP: WHITE - Version 3.1 - Guidance on Essential Critical Infrastructure Workers During COVID-19

- Released on May 19, 2020 and is intended to support state, local, tribal, territorial and industry partners in identifying the critical infrastructure sectors and the essential workers needed to maintain the services and functions Americans depend on daily and that need to be able to operate resiliently during the COVID-19 pandemic response.
- This update provides clarity around many individual worker categories and updated language to better reflect terminology used in food and agriculture industries.
- As with previous versions, the guidance intended to support decision makers in communities and jurisdictions across the country during the COVID-19 emergency and it is non-binding
- Available at <https://www.cisa.gov/publication/guidance-essential-critical-infrastructure-workforce>



TLP: WHITE - CISA Current Activities - Hurricane-Related Scams

- June 1, 2020 marks the official start of the 2020 Atlantic hurricane season
- CISA is warning people to remain on alert for malicious cyber activity targeting potential disaster victims and charitable donors following hurricane season-related storms.
- Exercise caution in handling emails with hurricane-related subject lines, attachments, or hyperlinks. In addition, be wary of social media pleas, texts, or door-to-door solicitations relating to severe weather events.
- More details and other resources are available at <https://www.us-cert.gov/ncas/current-activity/2020/06/01/hurricane-related-scams>



TLP: WHITE - CISA Current Activity: CISA, DOE, and UK's NCSC Issue Guidance on Protecting Industrial Control Systems

- ICS/OT security best practices at [https://www\[.\]us-cert\[.\]gov/ncas/current-activity/2020/05/22/cisa-doe-and-uks-ncsc-issue-guidance-protecting-industrial-control](https://www[.]us-cert[.]gov/ncas/current-activity/2020/05/22/cisa-doe-and-uks-ncsc-issue-guidance-protecting-industrial-control)
- Resources cited:
 - Best practices infographic at [https://www\[.\]cisa\[.\]gov/sites/default/files/publications/Cybersecurity_Best_Practices_for_Industrial_Control_Systems.pdf](https://www[.]cisa[.]gov/sites/default/files/publications/Cybersecurity_Best_Practices_for_Industrial_Control_Systems.pdf)
 - CISA ICS Recommended practices at [https://www\[.\]us-cert.gov/ics/Recommended-Practices](https://www[.]us-cert.gov/ics/Recommended-Practices)
 - DOE C2M2 - [https://www\[.\]energy\[.\]gov/ceser/activities/cybersecurity-critical-energy-infrastructure/energy-sector-cybersecurity-0](https://www[.]energy[.]gov/ceser/activities/cybersecurity-critical-energy-infrastructure/energy-sector-cybersecurity-0)
 - NCSC Secure Design Principles and Operational Technology at [https://www\[.\]ncsc.gov\[.\]uk/blog-post/studies-in-secure-system-design](https://www[.]ncsc.gov[.]uk/blog-post/studies-in-secure-system-design)



TLP: WHITE – CISA/FBI Joint Announcement on PRC Targeting of COVID-19

- Public Service Announcement released on May 13, 2020 and intended to raise awareness of the threat to COVID-19-related research.
- Cited at:
 - [https://www\[.\]us-cert\[.\]gov/ncas/current-activity/2020/05/13/cisa-fbi-joint-announcement-prc-targeting-covid-19-research](https://www[.]us-cert[.]gov/ncas/current-activity/2020/05/13/cisa-fbi-joint-announcement-prc-targeting-covid-19-research)
 - [https://www\[.\]cisa\[.\]gov/publication/fbi-cisa-psa-prc-targeting-covid-19-research-organizations](https://www[.]cisa[.]gov/publication/fbi-cisa-psa-prc-targeting-covid-19-research-organizations)
 - [https://www\[.\]cisa\[.\]gov/sites/default/files/publications/Joint_FBI-CISA_PSA_PRC_Targeting_of_COVID-19_Research_Organizations_S508C.pdf](https://www[.]cisa[.]gov/sites/default/files/publications/Joint_FBI-CISA_PSA_PRC_Targeting_of_COVID-19_Research_Organizations_S508C.pdf)



TLP: WHITE - North Korean Malicious Cyber Activity

- Released on May 12, highlighted at [https://www\[.\]us-cert\[.\]gov/ncas/current-activity/2020/05/12/north-korean-malicious-cyber-activity](https://www[.]us-cert[.]gov/ncas/current-activity/2020/05/12/north-korean-malicious-cyber-activity)
- Provides details on the three (3) malware variants, COPPERHEDGE, TAINTEDSCRIBE and PEBBLEDASH, identified by CISA, FBI, and DoD
- Includes links to analysis reports and DoD's VirusTotal pages for these malware variants is also provided.



TLP: WHITE - Activity Alert AA20-133A - Top 10 Routinely Exploited Vulnerabilities

- Activity Alert developed through a joint effort by CISA, the FBI, and the broader U.S. Government, available at <https://www.us-cert.gov/ncas/alerts/AA20-133a>
- Intended to advise IT security professionals at public and private sector organizations to place an increased priority on patching the most commonly known vulnerabilities exploited by sophisticated foreign cyber actors
- Highlights details on vulnerabilities routinely exploited by foreign cyber actors—primarily Common Vulnerabilities and Exposures (CVEs)
- Highlights mitigation of the noted vulnerabilities and CISA resources that can be leveraged in that effort, which include:
 - CISA Cyber Resource Hub - <https://www.cisa.gov/cyber-resource-hub>
 - Vulnerability Management - <https://www.us-cert.gov/resources/ncats>





For more information:
[cisa.gov](https://www.cisa.gov)

Questions?
CISAServiceDesk@cisa.dhs.gov
1-888-282-0870

AUTO-ISAC COMMUNITY MEETING

Why Do We Feature Speakers?

- ❖ These calls are an opportunity for information exchange & learning
- ❖ Goal is to educate & provide awareness around cybersecurity for the *connected vehicle*

What Does it Mean to Be Featured?

- ❖ Perspectives across our ecosystem are shared from members, government, academia, researchers, industry, associations and others.
- ❖ Goal is to showcase a rich & balanced variety of topics and viewpoints
- ❖ Featured speakers are not endorsed by Auto-ISAC nor do the speakers speak on behalf of Auto-ISAC

30 *Featured Speakers to date*

7 *Best Practice Guides available on website*

2000+ *Community Participants*

How Can I Be Featured?

- ❖ If you have a topic of interest you would like to share with the broader Auto-ISAC Community, then we encourage you to contact us!



COMMUNITY SPEAKERS

EXAMPLE OF PREVIOUS COMMUNITY SPEAKERS

- **Urban Jonson**, NMFTA, Heavy Vehicle Cybersecurity Working Group (April 2018)
- **Ross Froat**, American Trucking Association, ATA Cyberwatch Program (Oct 2018)
- **Katherine Hartman**, Chief – Research, Evaluation and Program Management, ITS Joint Program Office, US DOT (August 2019)
- **Joe Fabbre**, Global Technology Director, Green Hills Software (October 2019)
- **Oscar Marcia**, CISSP, Eonti, Device Authentication in Auto-ISAC as a Foundation to Secure Communications (November 2019)
- **Amy Smith**, the Manager of Pre-College Educational Programming at SAE International (January 2020)

Community Call Slides are located at: www.automotiveisac.com/communitycalls/

WELCOME TO TODAY'S SPEAKER

Featured Speaker

Randy Sandone, CCISO, Executive Director Critical Infrastructure Resilience Institute (CIRI)



- **CIRI** is a DHS University Center of Excellence housed at the University of Illinois at Urbana-Champaign. As Executive Director, Randy is responsible for the operational, administrative and financial management of the Institute.
- Comprehensive career guiding research and technology projects in settings ranging from start-ups to Fortune 100 companies with strengths in strategy-development, business development, and project management.
- Over thirty years experience in development, testing and certification of cyber security products used by customers from Federal Agencies such as the DoD, the Intelligence Community, and private sector companies.
- MBA from University of Utah.

Randall Sandone, CCISO

Executive Director

Critical Infrastructure Resilience Institute

rsandone@illinois.edu

Process, People, and Products

Building Cyber Resilience for the Long-Term

Presentation to Auto-ISAC:

3 June 2020

OVERVIEW:

DHS Center of Excellence

- University of Illinois at Urbana-Champaign
- **Practical, impactful** solutions to urgent problems of critical infrastructure resilience

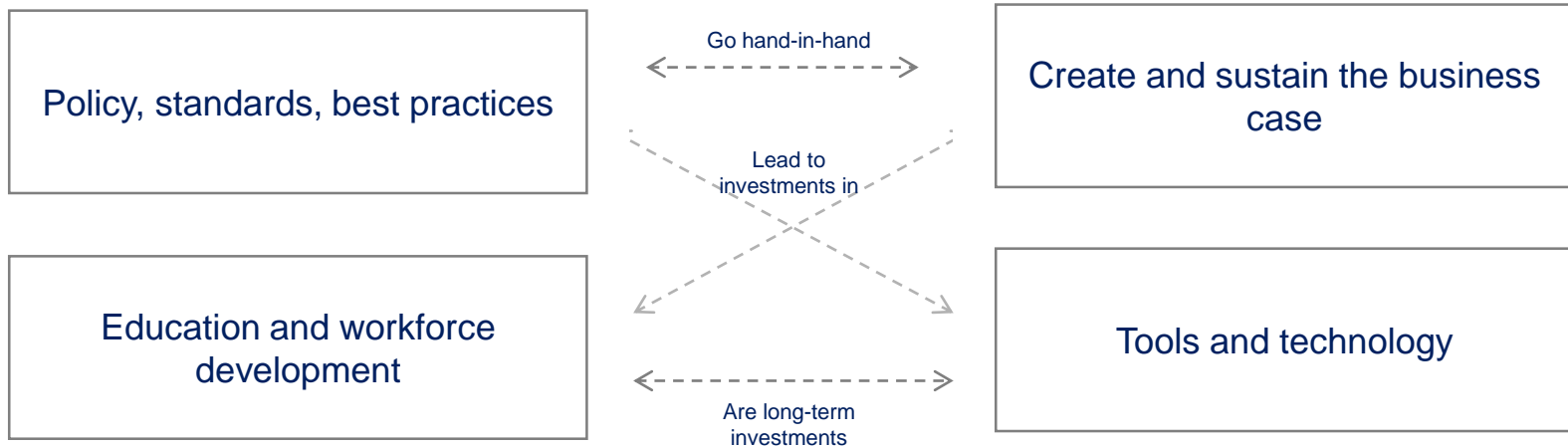
Missions

- **Outputs-oriented** research
- Tech **Transition**
- Education & workforce **development**

Collaboration

- Strong end-user **engagement** in all mission areas
- **Open to government and private sector**

How do we attain a secure and resilient critical infrastructure?

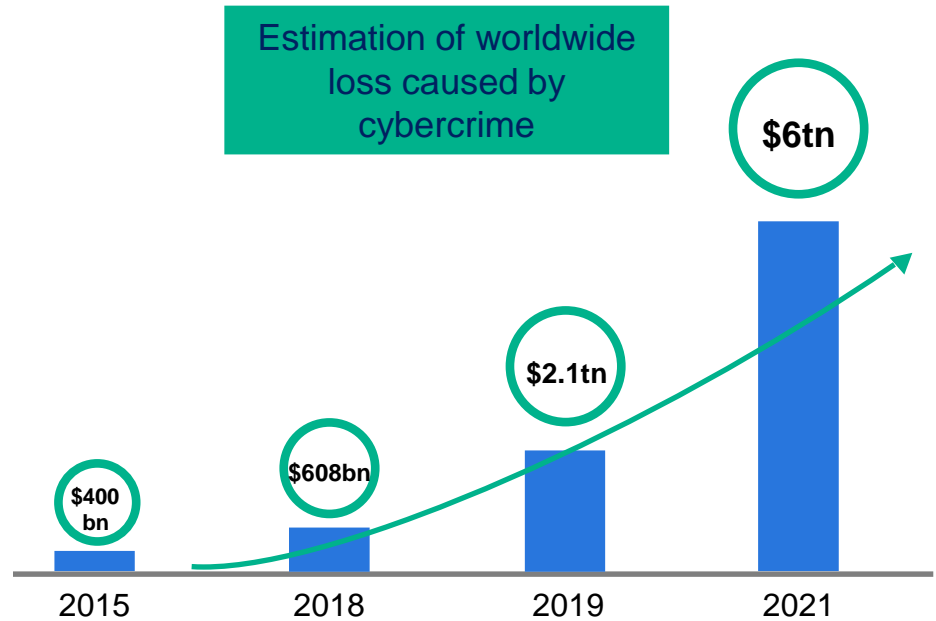
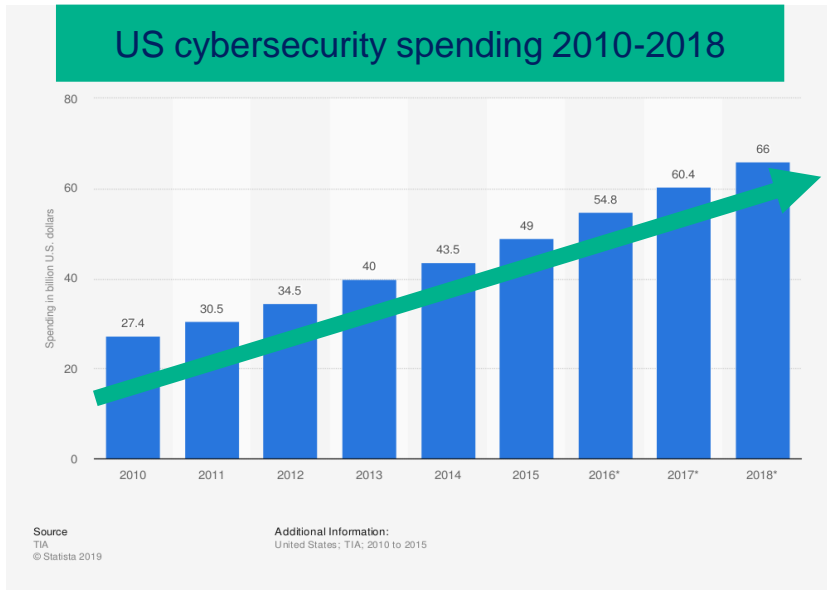




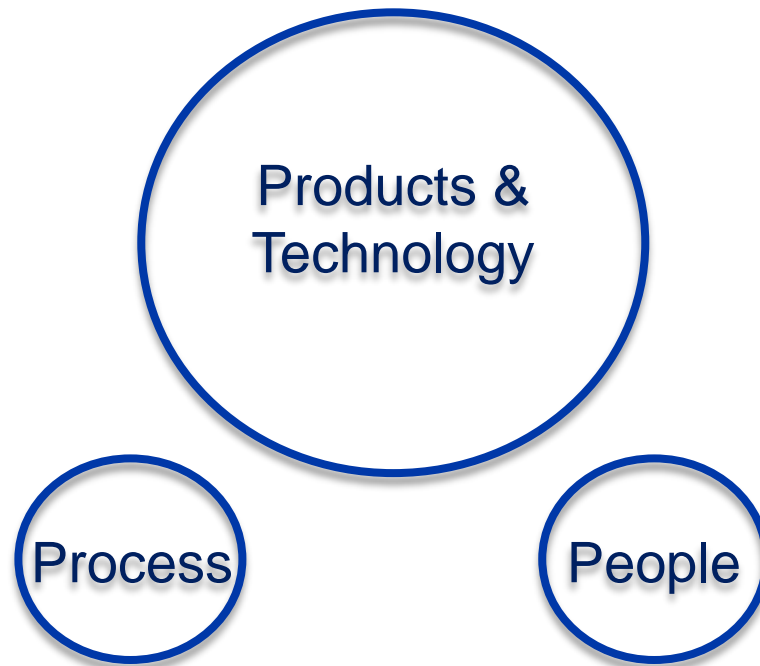
THE CYBERSECURITY LANDSCAPE

30

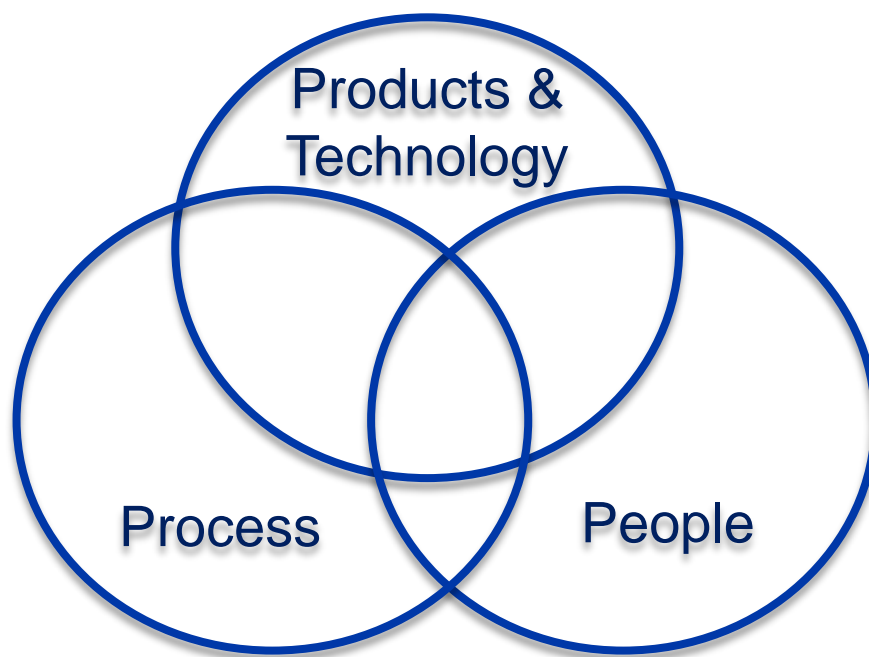
DESPITE HIGHER SPENDING ON CYBERSECURITY, COSTS DUE TO CYBER ATTACKS CONTINUE TO GROW EXPONENTIALLY



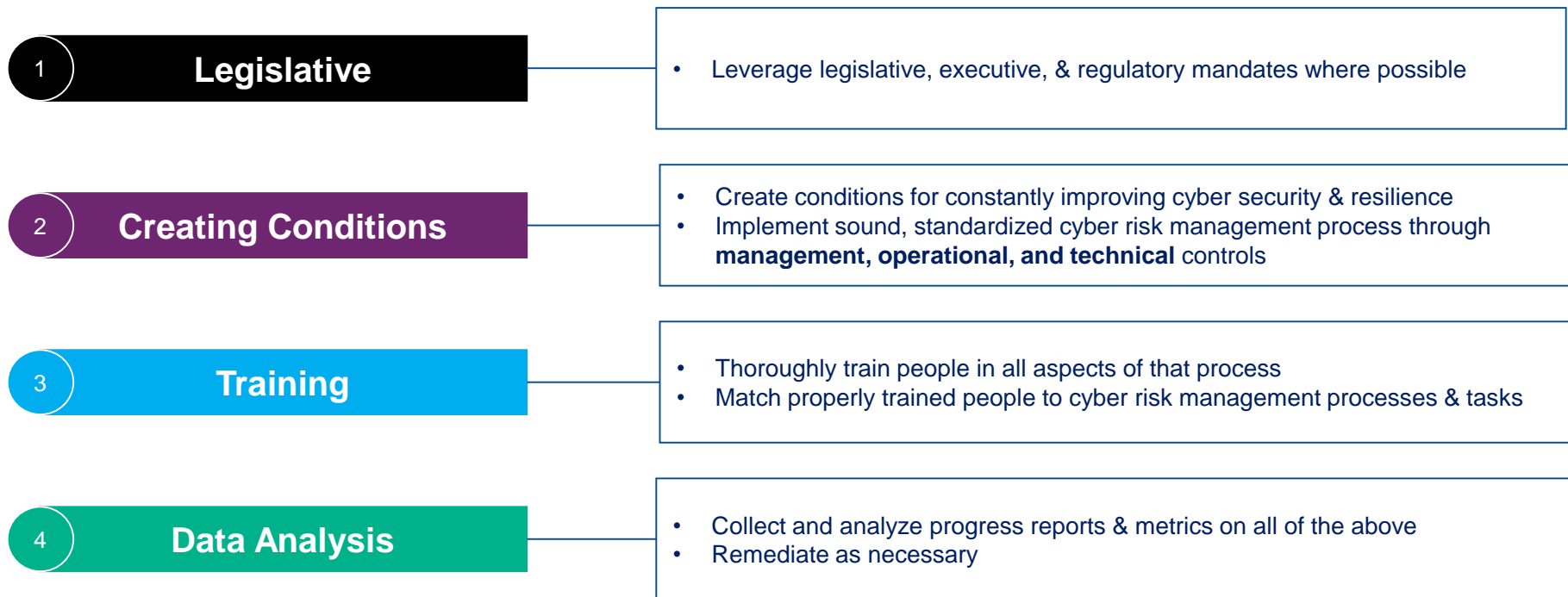
WHERE WE ARE TODAY:



Where we need to be:



RECOMMENDED COURSE OF ACTION:



Three projects of potential interest:



Cyber Secure Dashboard

Operationalize sound, standardized cyber risk management process & best practices guidance



National-Scale Delivery of Cyber Security Education

Training in cybersecurity standards & best practices at macro and micro scales



Cyber Security Talent Management Module

Matching properly skilled personnel to the essential cybersecurity tasks

National Standards: Addressing Process and People



NICE
NATIONAL INITIATIVE FOR
CYBERSECURITY EDUCATION

STANDARDIZING THE PROCESS: CYBER SECURE DASHBOARD

An intuitive, cloud-based platform that operationalizes a sound, standardized, effective cyber risk management process and best practices

Credible

Standardize



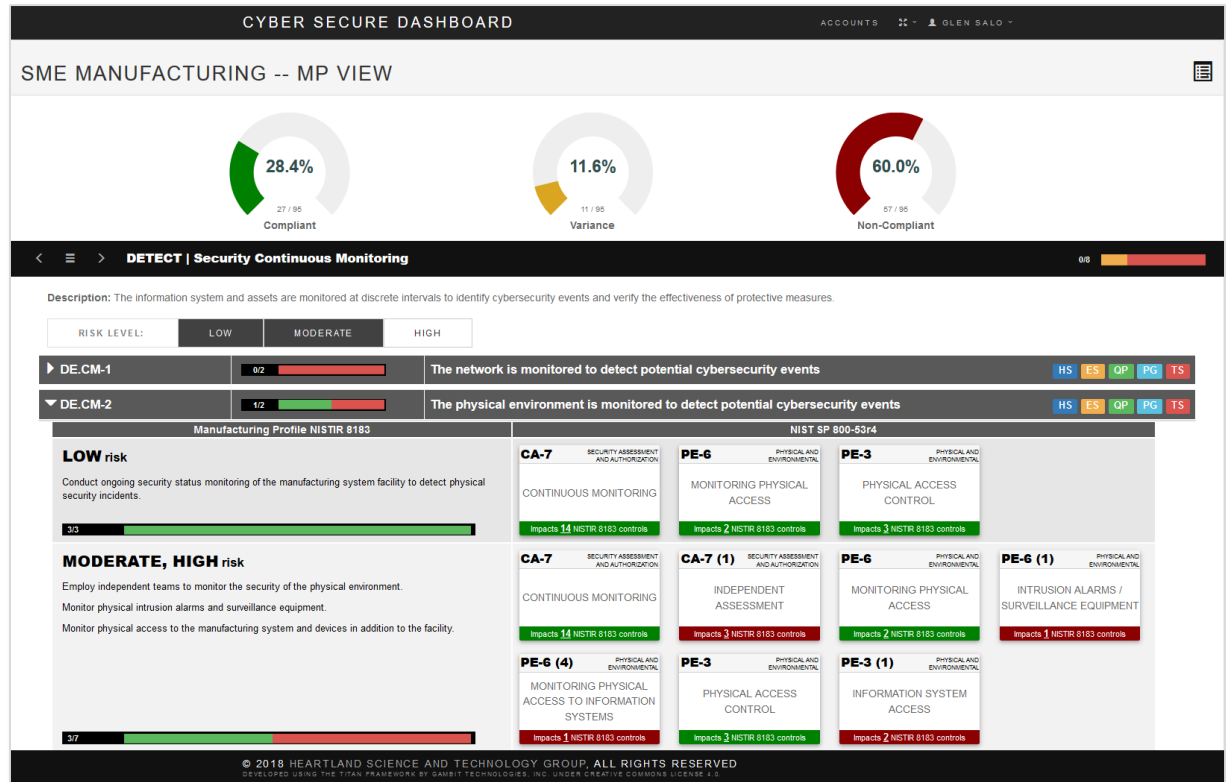
Mature

Flexible

CYBER SECURE DASHBOARD

Features

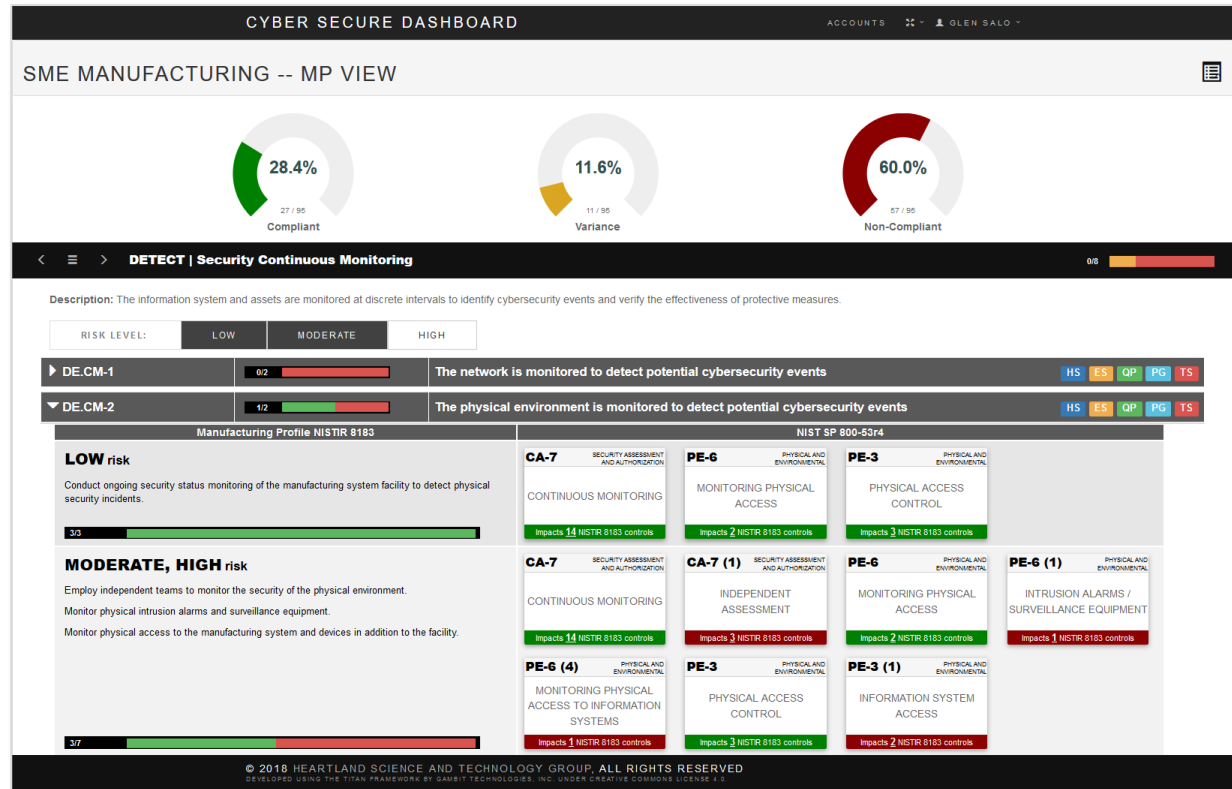
- NIST CSF + profiles + CMMC
- All-of-Company
- “Learn by Doing”
- Internal & External Communications
- One stop:
 - Requirements
 - References
 - Templates & best practices
 - POAM
 - Reporting
 - Embedded Training
- SMEs...prime contractors...entire supply chains



CYBER SECURE DASHBOARD

Manufacturing Profile

- Status-at-a-glance
- Requirements mapped to controls
- Varying risk levels
- Includes business objectives



Who needs it?... Small and Medium Businesses



Are the **prime targets** for attackers



Learn by doing design



Embedded training – including “just-in-time” and classroom



Process and task **management**



Complements outsourced cybersecurity services

Who needs it?... Large Businesses



Increasingly responsible for supply chain risks – including cyber



Standardize policies, processes, requirements **across supply chains**



View **aggregated status** of supply chain + drill down on pain points



Plan of Action & Milestones, centralized artifact repository, **automated reports**



Embedded training and **talent management**

Requirements, best practices, resources, and policies

800-53 Controls

Best Practices

CM-8 - INFORMATION SYSTEM COMPONENT INVENTORY

Family: CONFIGURATION MANAGEMENT

Priority: P1

Baseline Impact: LOW, MODERATE, HIGH

Control: The organization: Develops and documents an inventory of information system components that:

- Accurately reflects the current information system;
- Includes all components within the authorization boundary of the information system;
- Is at the level of granularity deemed necessary for tracking and reporting; and
- Includes [Assignment: organization-defined information deemed necessary to achieve effective information system component accountability]; and

Reviews and updates the information system component inventory [Assignment: organization-defined frequency].

Supplemental Guidance: Organizations may choose to implement centralized information system component inventories that include components from all organizational information systems. In such situations, organizations ensure that the resulting inventories include system-specific information required for proper component accountability (e.g., information system association, information system owner). Information deemed necessary for effective accountability of information system components includes, for example, hardware inventory specifications, software license information, software version numbers, component owners, and for networked components or devices, machine names and network addresses. Inventory specifications include, for example, manufacturer, device type, model, serial number, and physical location.

Related Controls: CM-2, CM-5, PM-5

Best Practices:

- Organizations must establish a baseline configuration for information systems that details the necessary installation and configuration for primary hardware and software, including communication and connectivity aspects.
- The baseline must be documented and maintained within a configuration control system (e.g., a database secured with role-based access or a list of settings stored on tamper-resistant, access controlled media).
- The recorded baseline must be kept current with modifications.
- The baseline must detail how the information system in question is built and configured for operation in the targeted environment.

Software, publications, and other resources:

- Linux hardening guide - <https://linux-audit.com/ubuntu-server-hardening-guide-quick-and-secure/>
- Windows hardening guide - <https://technet.microsoft.com/en-us/library/cc526440.aspx>
- NIST baseline checklists - <https://nvd.nist.gov/cpe/repository/>
- NSA baseline checklists - <https://www.iad.gov/ia/library/ia-guidance/security/configuration/index.cfm>

Policy Templates

Company Name Security Operations Policy Page 2

Table of Contents

- Purpose 4
- Scope 4
- Physical Security 4
 - Access Control 4
 - Access Control Monitoring 4
 - Access Badges 5
 - Visitors 5
 - Access Review and Testing 6
 - Facility Structure 6

Company Name Security Operations Policy Page 4

Purpose

This policy defines the information system operations requirements for establishing security controls at Company Name, considering physical security, hardware security, software security, data security, and end-user security training.

Scope

This policy applies to all Company Name facilities, with a target audience of all employees and partners.

Physical Security

POAM Management

CYBER SECURE DASHBOARD

SME MANUFACTURING

LIST CALENDAR PLANNER

All Tasks

Title	Severity	Assignee	Recur	Due Date	Status
Procure a router	Moderate	glen.r.salo@heartlandstg.org		2019/04/13	✓
Quarterly Training	High	rfleming@heartlandstg.org	✓	2019/05/01	○
Firewall - review logs	High	glen.r.salo@heartlandstg.org	✓	2019/05/01	✓
Procure a firewall device	High	rfleming@heartlandstg.org		2019/05/02	✓
Configure firewall	High	glen.r.salo@heartlandstg.org		2019/04/30	○

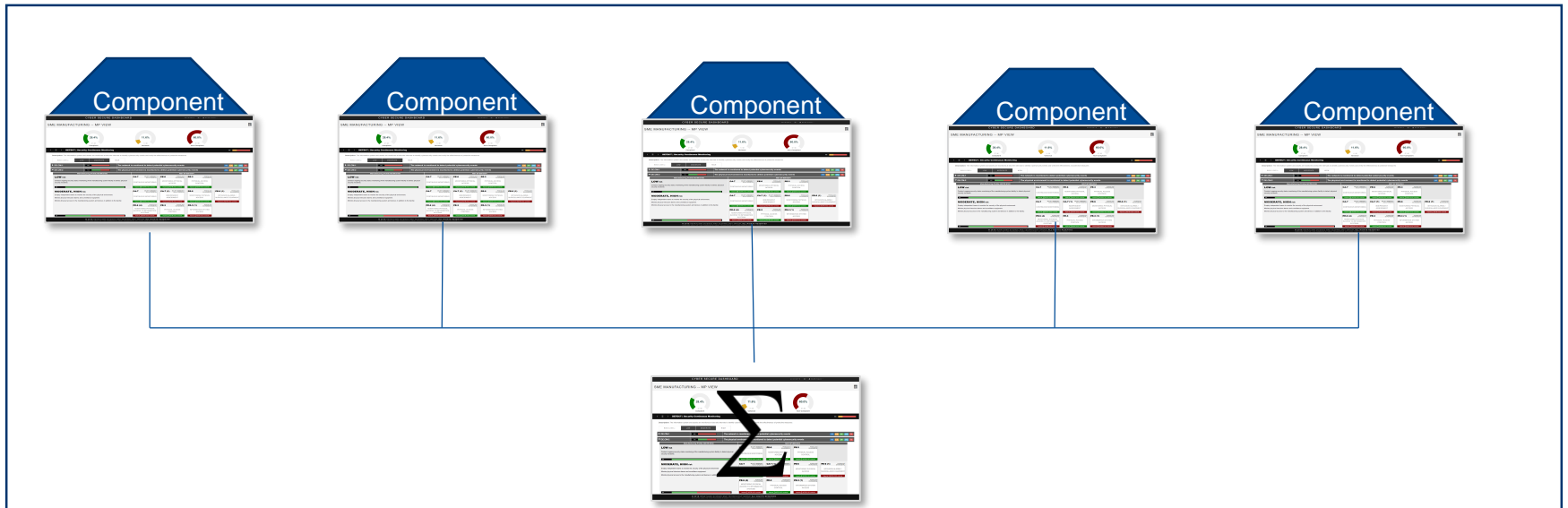
Status: In Progress | Completed | Approved

Severity:

- High
- Moderate
- Low
- Not Assigned

Resources including Embedded Training Modules

Increase transparency and communication within the supply chain





TRAINING THE PEOPLE: NATIONAL-SCALE DELIVERY OF CYBER SECURITY EDUCATION

45

Training-Augmented Dashboard

In-Context Training



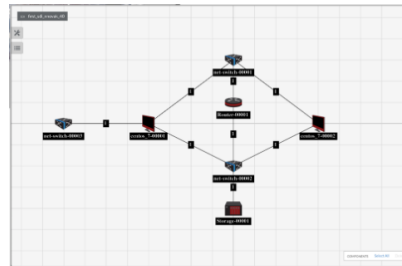
- Security Requirements
- Risk & Vulnerability Assessment
- Controls Implementation
- Monitoring & Mitigation
- Hands-on Training & Testing



In-Class Training



- Risk Awareness
- Risk Management Process
- Duties & Responsibilities
- Policies & Implementation



Cyber Range



MATCHING PEOPLE TO TASKS: CYBER SECURITY TALENT MANAGEMENT MODULE

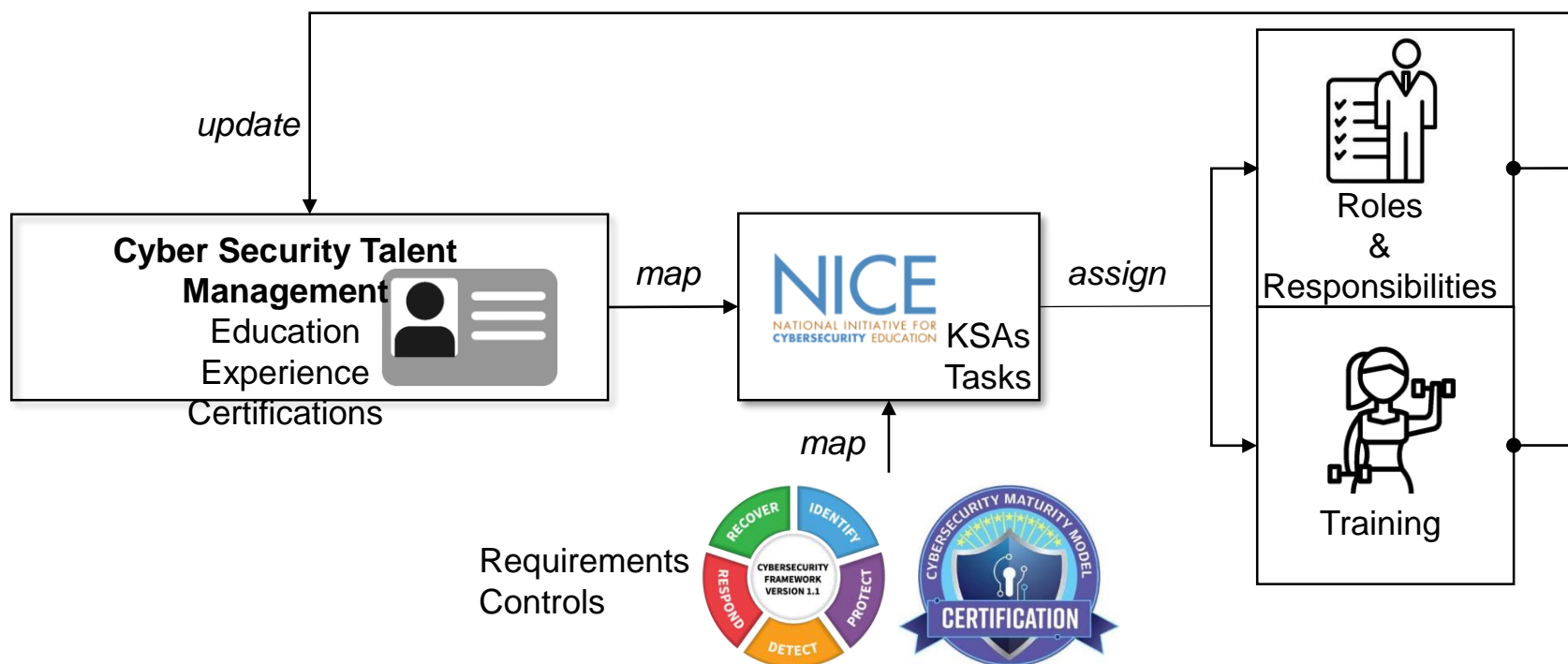
Human resources tool to document, track, and manage cybersecurity knowledge, skills, and abilities of personnel based on NIST NICE Framework



NICE

NATIONAL INITIATIVE FOR
CYBERSECURITY EDUCATION

Matching People to Tasks:



Summary

Shift to a more **holistic approach** to products, people, and process. With a proper emphasis on the **people and process**

Implement and train employees to match a standard & mature **cyber risk management process**

Train to address KSA gaps, match tasks to appropriately skilled employees

Monitor performance with full **transparency** and **communicate expectations** clearly



THANK YOU!

Visit Us: ciri.illinois.edu

51

OPEN DISCUSSION

*ANY QUESTIONS ABOUT THE
AUTO-ISAC OR FUTURE TOPICS
FOR DISCUSSION?*

HOW TO GET INVOLVED: MEMBERSHIP

IF YOU ARE AN OEM, SUPPLIER OR COMMERCIAL VEHICLE, CARRIER OR FLEET, PLEASE JOIN THE AUTO-ISAC!

- *REAL-TIME INTELLIGENCE SHARING*
- *INTELLIGENCE SUMMARIES*
- *REGULAR INTELLIGENCE MEETINGS*
- *CRISIS NOTIFICATIONS*
- *MEMBER CONTACT DIRECTORY*
- *DEVELOPMENT OF BEST PRACTICE GUIDES*
- *EXCHANGES AND WORKSHOPS*
- *TABLETOP EXERCISES*
- *WEBINARS AND PRESENTATIONS*
- *ANNUAL AUTO-ISAC SUMMIT EVENT*

To learn more about Auto-ISAC Membership or Partnership, please contact Auto-ISAC! contact.us@automotiveisac.com

STRATEGIC PARTNERSHIP PROGRAMS

Solutions Providers

For-profit companies that sell connected vehicle cybersecurity products & services.

Examples: Hacker ONE, SANS, IOActive, GRIMM

Associations

Industry associations and others who want to support and invest in the Auto-ISAC activities.

Examples: Alliance, ACEA, ATA, JAMA, CLEPA

Affiliations

Government, academia, research, non-profit orgs with complementary missions to Auto-ISAC.

Examples: DHS, NHTSA, Colorado State, Johns Hopkins, NCI

Community

Companies interested in engaging the automotive ecosystem and supporting the community.

Examples: Summit sponsorship – key events

INNOVATOR

Paid Partnership

- Annual investment and agreement
- Specific commitment to engage with ISAC
- In-kind contributions allowed

NAVIGATOR

Support Partnership

- Provides guidance and support
- Annual definition of activity commitments and expected outcomes
- Provides guidance on key topics / activities

COLLABORATOR

Coordination Partnership

- “See something, say something”
- May not require a formal agreement
- Information exchanges- coordination activities

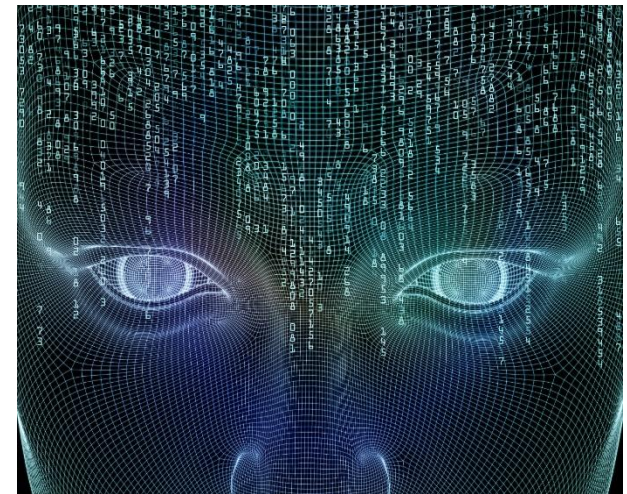
BENEFACTOR

Sponsorship Partnership

- Participate in monthly community calls
- Sponsor Summit
- Network with Auto Community
- Webinar / Events

AUTO-ISAC BENEFITS

- Focused Intelligence Information/Briefings
- Cybersecurity intelligence sharing
- Vulnerability resolution
- Member to Member Sharing
- Distribute Information Gathering Costs across the Sector
- Non-attribution and Anonymity of Submissions
- Information source for the entire organization
- Risk mitigation for automotive industry
- Comparative advantage in risk mitigation
- Security and Resiliency



Building Resiliency Across the Auto Industry

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