

Southeast Region Federal Construction

“Light” Virtual: October 27-28

2021 SUMMIT

In-Person: April 6-7

2022 SUMMIT

Infrastructure & Environmental Summit

Virginia North Carolina South Carolina Georgia Florida

Hosted by:

Office of Senator Richard Burr

Office of Senator Thom Tillis

North Carolina Military Business Center



CyberStructure: Building A Cybersecurity Compliance Infrastructure

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October 28, 2021

1145-1245



Presenters

- Laura Rodgers, Business Development/Cybersecurity Compliance, North Carolina Military Business Center
- Chris Newborn, Cybersecurity Enterprise Team (CET) CISSP, GSTRT, GISP, GSLC Professor Cybersecurity, Defense Acquisition University



Building a Resilient Cybersecurity Infrastructure

Southeast Regional Federal Construction,
Infrastructure & Environment Summit

October 28, 2021

Laura Rodgers, North Carolina Military Business Center
www.ncmbc.us/www.cyberNC.us

Chris Newborn, Professor, Cybersecurity, Defense
Acquisition University



Building a Resilient Cybersecurity Program

We live a time of unprecedented change and change is occurring at an unprecedented rate – the “Exponential Age”. It is almost impossible to keep up – to stay ahead of evolving threats and new technologies.

Building a Resilient Cybersecurity Program

Resilience: the ability to prepare for, withstand, adapt to, respond to, and rapidly recover from changing conditions and acute disruptions. Requires competence, flexibility, responsibility, communication, teamwork, and problem-solving.

Resilience = Business Continuity

Building a Resilient Cybersecurity Program

Prepare

- *Tone at the Top* - leaders must understand the need for a resilient cybersecurity program, communicate that need effectively, and provide the resources to develop, maintain, evaluate and evolve the program.

Developing a cybersecurity program is a business decision



Building a Resilient Cybersecurity Program

Prepare

- ✓ *Asset Inventories – to protect assets you must know what assets you have, where they are located and who is responsible for them; AND if the assets must be protected per government regulations.*



Building a Resilient Cybersecurity Program

Prepare

- *Asset Inventories*
 - Data (the new currency)
 - ✓ Types of data – sensitive, IP, legal documents, regulated, intangible (brand), etc.
 - IT – software/hardware
 - Any asset(s) that could be harmed by a cybersecurity incident

Building a Resilient Cybersecurity Program

Prepare

- Know your risks and vulnerabilities – perform a thorough *risk analysis*. Be sure to include supply chain risks.



Building a Resilient Cybersecurity Program

Withstand -
Risk Treatments



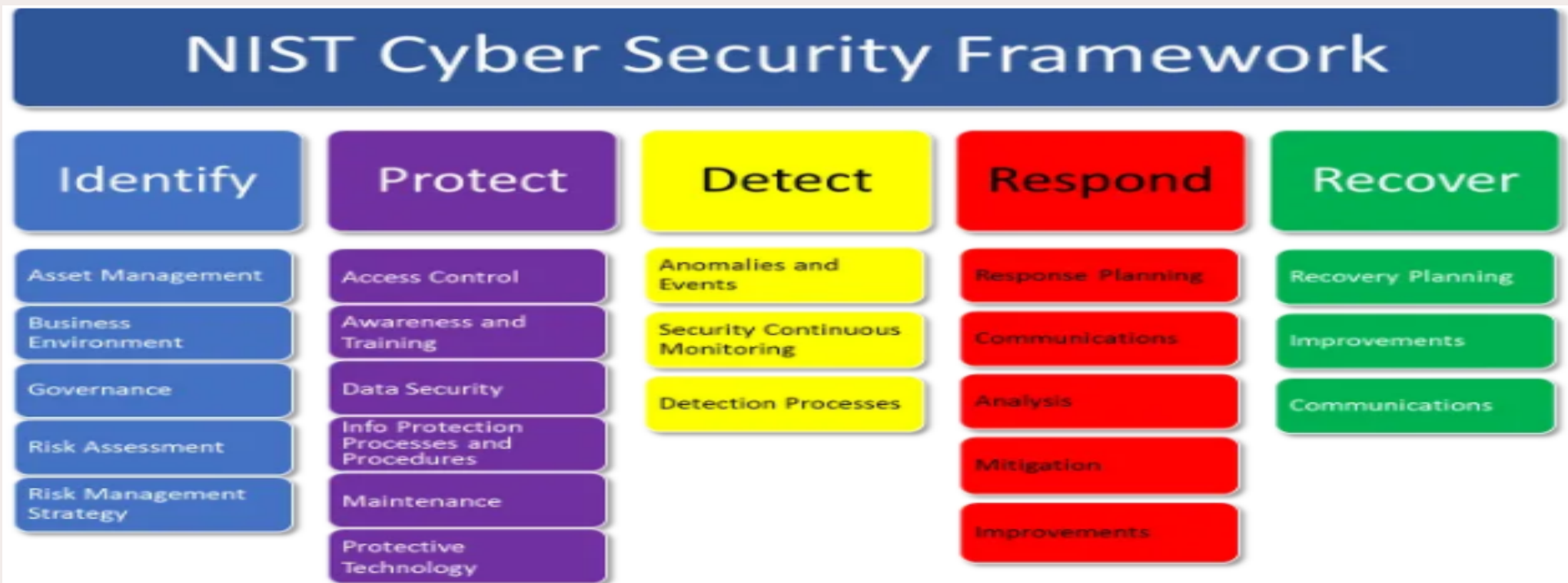
Building a Resilient Cybersecurity Program

Withstand

- *Transfer Risk*
 - Cloud service provider - handle complex cybersecurity controls
 - Purchase cybersecurity insurance
- *Avoid Risk*
 - Dispose of unnecessary assets (such as old data)
 - Minimize the transfer of sensitive data

Building a Resilient Cybersecurity Program

Withstand - *Reduce Risk* - Select a Framework/Controls



Building a Resilient Cybersecurity Program

Withstand

Reduce Risk - Example

- Training – for most organizations, the biggest cybersecurity risk is people risk. Invest in awareness and task-specific training. A well-trained workforce is your first line of defense.
 - Recommend Wizer's free training: <https://www.wizer-training.com/>



Building a Resilient Cybersecurity Program

Withstand

- *Residual Risk* - risk can't be 100% eliminated. Decide how much risk you are willing to accept based on your organization's risk appetite.

Building a Resilient Cybersecurity Program

Withstand

Policies/Procedures – comprehensive cybersecurity policies and procedures keep everyone in the same boat and paddling in the same direction. You will get repeatable, quality results with a good policy/procedure framework. Ad hoc frameworks create confusion and chaos – and increase risk.

The SANS Institute has good – and free – templates:

<https://www.sans.org/information-security-policy/>

Building a Resilient Cybersecurity Program

Withstand - Respond

- Need event/incident detection – can't respond if you don't know an incident has occurred
- Incident analysis – to respond effectively you need to understand the incident/impact
- Know how to report cyber incidents – NCDIT Incident Reporting
- Develop processes/procedures to handle a variety of incidents
- Practice incident response

Building a Resilient Cybersecurity Program

Adapt

- In this Exponential Age, *situational awareness* is critical – and it must be intentional. You can't adapt if you don't know what is changing.
 - ✓ Cybersecurity & Infrastructure Security Agency (CISA) – website shows recent vulnerabilities, threat analysis reports, and an alert system that sends the latest information to you via email.
<https://us-cert.cisa.gov/>
 - ✓ Federal cyber regulations, Executive Orders, CyberSpace Solarium Commission Report, MITRE ATT&CK framework, etc.

Building a Resilient Cybersecurity Program

Adapt

- Implicit in adaptation is *continuous improvement* – understanding how the new information/technology impacts your organization then determining how to incorporate it into your current system – AND learning from cyber incidents.



Building a Resilient Cybersecurity Program

Rapidly Recover

- Easier to recover if you have good policies/procedures in place to provide direction
- Need to know what assets were lost/impacted (asset inventory)
- Have multiple back-ups with one being offsite
- Test back-up and restore process to make sure it works
- Perform a root cause analysis of the incident
- Lessons Learned meeting
- Incorporate information from root cause/lessons learned

Building a Resilient Cybersecurity Program

Key takeaways:

- Takes time – no quick fixes
- Team effort – not an IT task
- Should be “foundational” – just as important as cost, schedule and performance
- Should be approached holistically – not a checklist of controls
- Requires a change in culture – focus on continuous improvement
- ***May save your organization***

North Carolina Military Business Center

The NCMBC is available to help contractors develop their cybersecurity compliance programs. Visit our website at <https://www.cybernc.us/> for resources and training.

Speaker Contact Information

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QUESTIONS



*Registration is open: 2022 SE Region Federal Construction,
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<https://summit.ncmbc.us>*