



State of New Hampshire Cybersecurity Strategy and Actions



Commissioner Goulet

Director Plummer

dhhs New Hampshire Department of
HEALTH AND HUMAN SERVICES

Commissioner Toumpas



Assumptions

- The term “statewide” is meant to convey that scope is not limited to the executive branch.
 - The items we’re proposing are in process or future state. There are many things that are already being done.
 - We will take a tiered approach where a baseline will be applied to agencies in a consistent manner (no opt out), with provisions to add additional capabilities at an agency level as desired or externally mandated.
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The Vision

A robust statewide cybersecurity function that provides practical and effective protection and response mechanisms, which adapt over time as threats evolve.

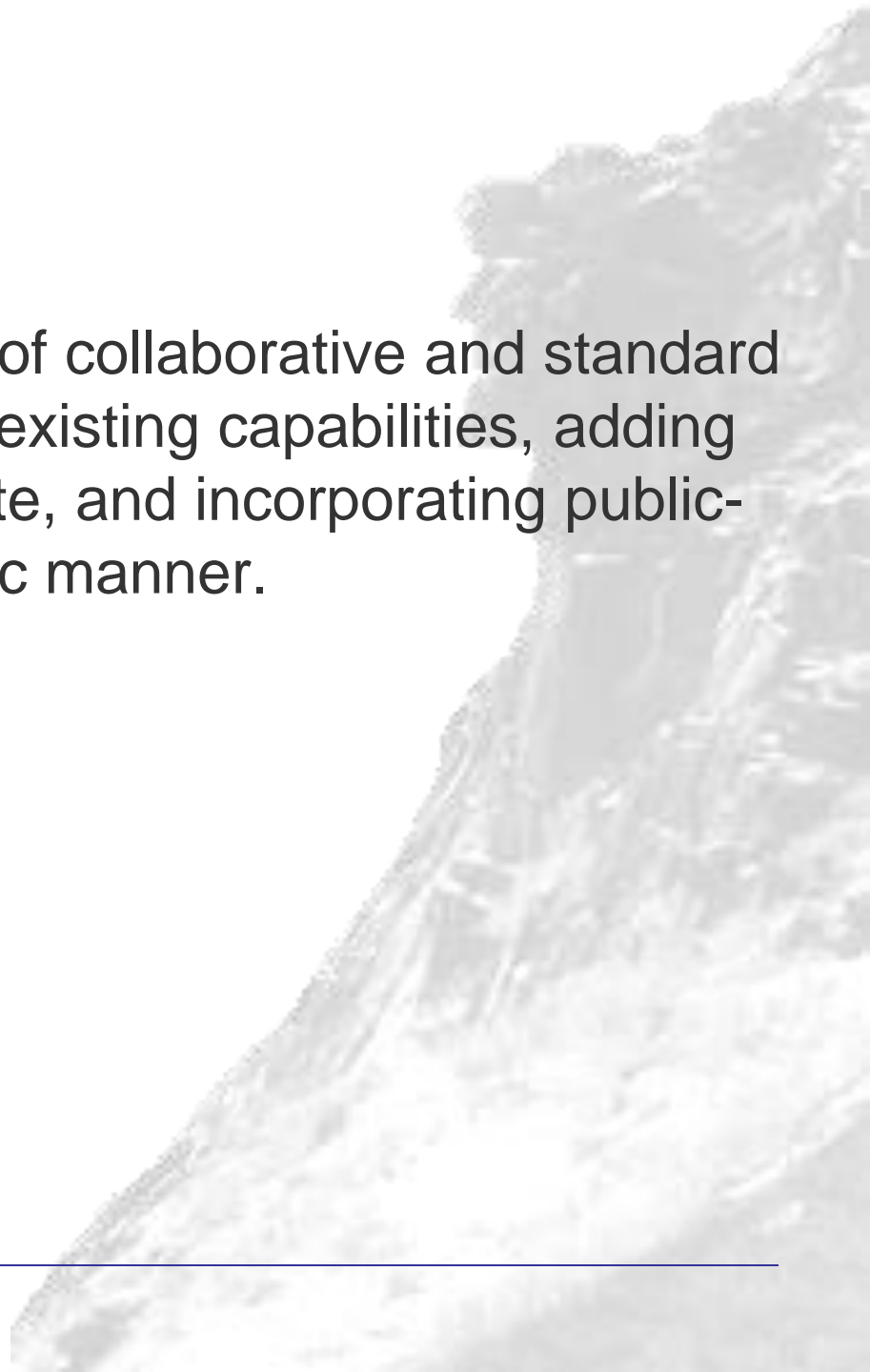






Strategy

- Implement and operate a set of collaborative and standard processes that fully leverage existing capabilities, adding new capabilities as appropriate, and incorporating public-private partnership in a holistic manner.
- In the following areas:
 - Protection
 - Operations
 - Mitigation & Response
 - Human Factors
 - Continuous Improvement





Cybersecurity Governance

- Strategy Development, Evangelism, Implementation, Operations – **DoIT, HSEM, TAG, CAC members**
- Consult and Advise – **Agency Heads, IT Council**
- Driving Public-Private Partnership – **ACEPS ***
- Approval and Oversight – **Governor's Office**

** Refers to the ACEPS Cyber Sub-committee*



Protection

- Strengthen local administration controls
 - Application white listing
 - Advanced threat detection (zero day)
 - Distributed denial of service (DDOS) mitigation services
 - Network access controls (NAC) (*in process*)
 - Administrative (Active Directory) delegation tools
 - Consistent baseline policies for:
 - Computer use
 - Device protection
 - Internet access & use
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Operations

- Patch management
 - Tighten up current methodologies
 - Resource appropriately
 - Integrate security considerations into project planning methodology
 - Commission outside assessment of posture and operational plans (risk assessment)
 - Security Operations Center (SOC), collaborative & consistent statewide capabilities
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Security Operations Center (SOC)

Governance And Oversight
(ACEPS Cyber Sub-committee)

Operations and
Response
(HSEM)

SOC
Leadership

Technical
Infrastructure and
Operations
(DoIT)

Other
Agency
Detailed

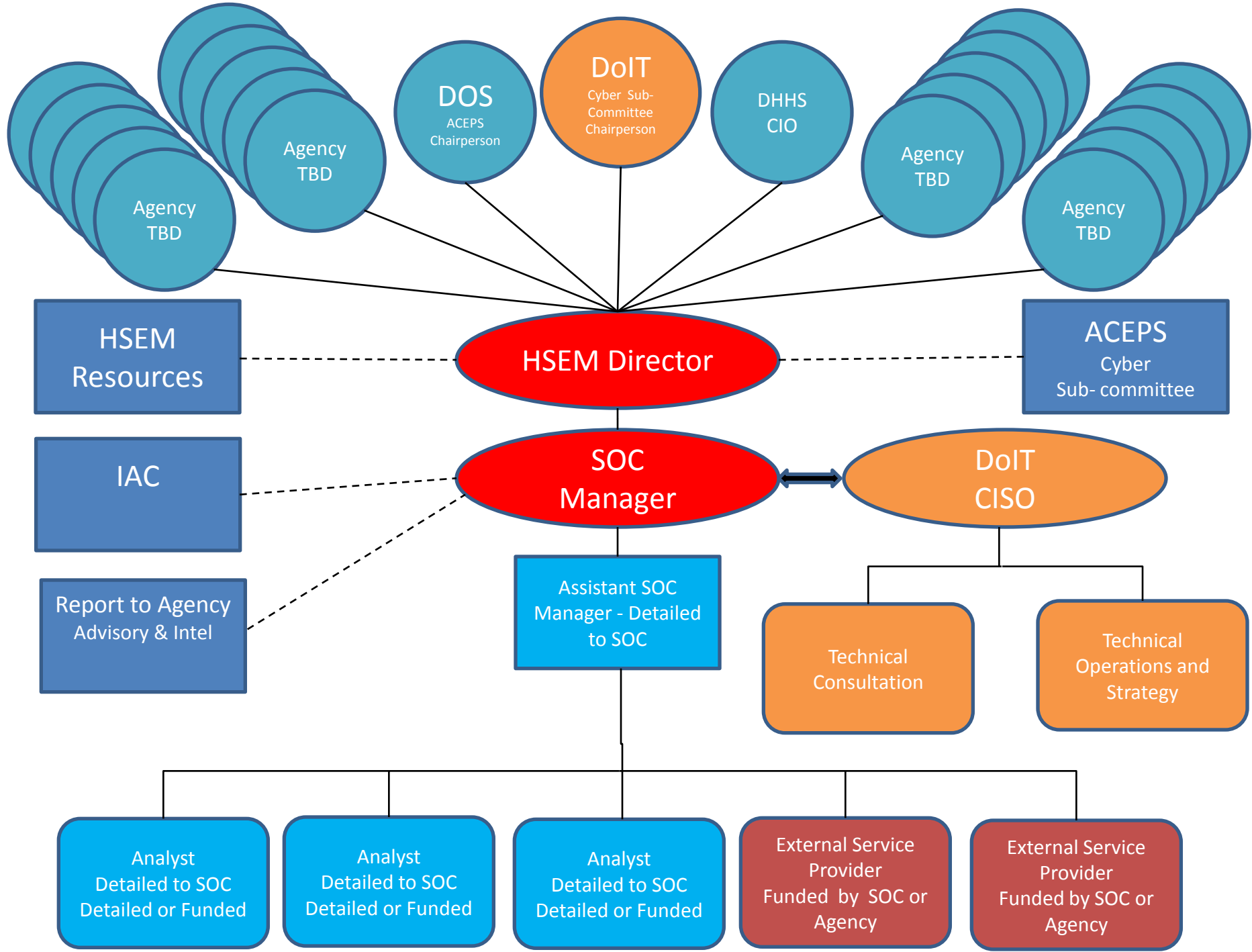
DOS
Detailed

Staffing

DoIT
Detailed

External
Service
Provider

DHHS
Detailed





Mitigation & Response

- Incident response workshops & exercises *
- Cyber insurance
- Broad collaboration to include:

DoIT	Federal Agencies
HSEM	Local Governments *
National Guard	Private Sector Entities *
State Agencies	Private Non-profit *

* Refers to the ACEPS Cyber Sub-committee



Cyber Insurance by Definition

Protection against losses related to information security breaches, such as data theft/loss, business interruption caused by a computer malfunction or virus, and fines or lost income because of system downtime and/or network intrusion.

Source: NASCIO 2015 Midyear Conference



Montana's Cyber Security Insurance

The state's commercial insurance policy provides coverage for:

- Data breach response costs including, but not limited to, forensic investigations, mail notification, and credit monitoring (one year)
- Fines/penalties assessed by regulatory authorities
- Revenue streams lost as a result of a breach
- Personal injuries and property damage for negligent acts or omissions of the state
- Website content and media
- Cyber ransoms and fines
- Public relations firm consultation

Source: NASCIO 2015 Midyear Conference



Human Factors

Cyber Hygiene Campaign

- Regular, accountable employee & supervisor training
- Standards for new hire screening & training
- Targeted social engineering testing:
 - Phishing and Spear Phishing
 - Flash drive exploits
 - Etc.

- Outreach to:

State Employees	Local Governments *
Agency Leadership	Private Sector Entities *
Legislative	Private Non-profit *

** Refers to the ACEPS Cyber Sub-committee*



Continuous Improvement

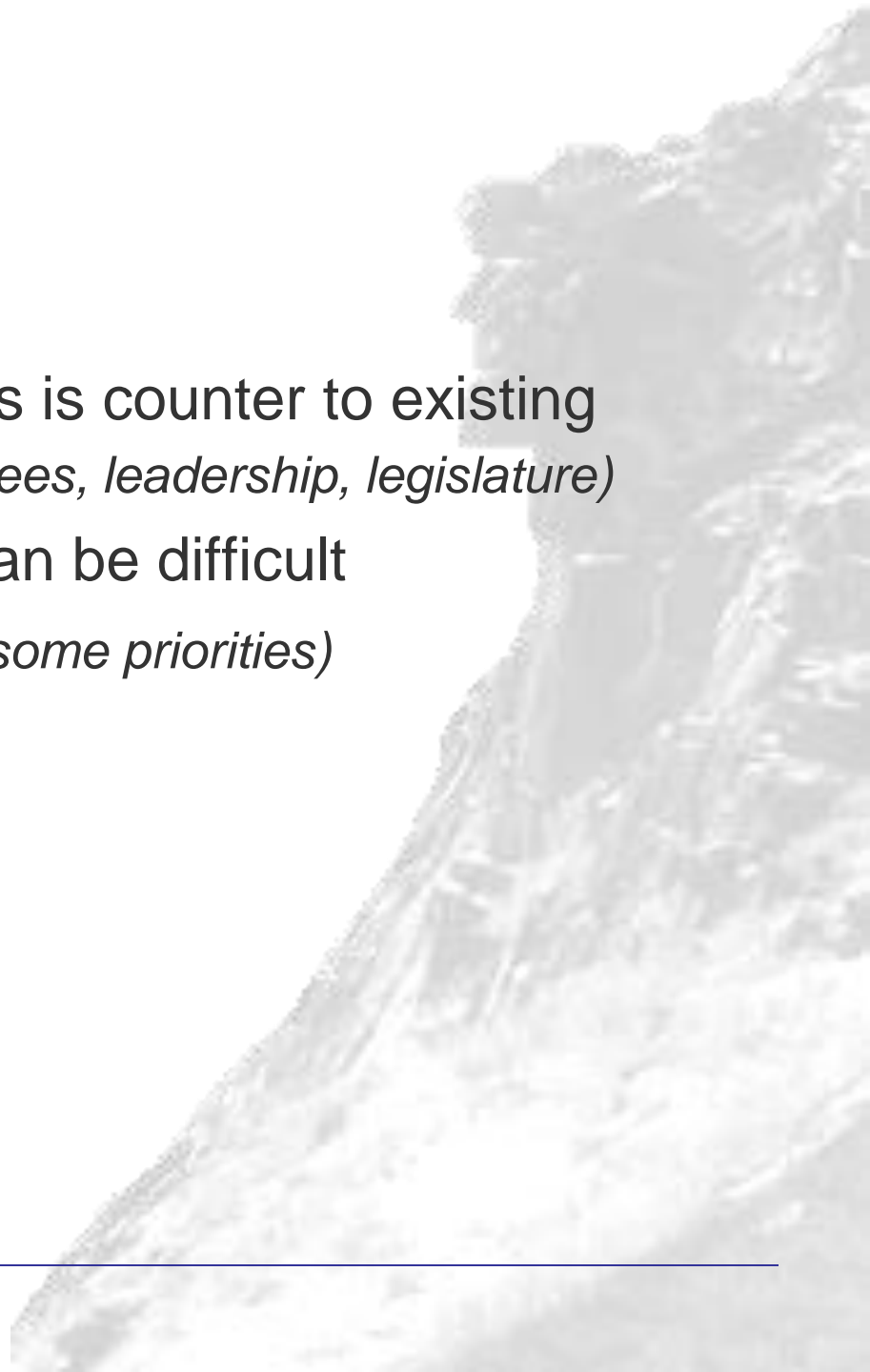
- Regular assessment – Agency Score Card
- Constant evaluation of new threats and methods
- Threat – risk analysis trending
- Prioritized partners (local governments and private sector entities) and address accordingly *

** Refers to the ACEPS Cyber Sub-committee*



Challenges

- Acceptance of base standards is counter to existing culture in some cases (*employees, leadership, legislature*)
- Cross agency collaboration can be difficult
- Resources (*we will need to shift some priorities*)





Next Steps – Plan Details

- Kickoff bi-weekly SOC implementation planning sessions – August 2015
 - Restart ACEPS Cyber Sub-committee – October 2015
 - Ballpark pricing for DDOS mitigation services – **complete**
 - Ballpark pricing for cyber insurance – September 2015
 - Propose cyber investment level & plan to get there - **TBD**
 - Plan to operationalize cybersecurity capital budget item – **In Process**
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Next Steps – Plan Ratification

- Review cybersecurity plan with IT Council – 7/29/2015
 - Review and solicit feedback from Commissioners – TBD
 - Review and solicit feedback from CAC – 8/27/2015
 - Update to Governor's Office – September 2015
 - Review and final ratification by IT Council – October 2015
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