

Information Security Continuous Monitoring (ISCM)

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Introduction to Information Security Continuous Monitoring (ISCM)



What?

Maintain ongoing security awareness, vulnerabilities, and threats to enable organizational risk management decisions:

- Collect information based on established metrics utilizing information readily available in part through implemented security controls
- Regular (and as often as needed) data analysis to manage risk as appropriate for each organizational tier



Guiding Principles

National Institute of Standards and Technology (NIST)

- Special Publication (SP) 800-137 (“Information Security Continuous Monitoring (ISCM) for Federal Information Systems and Organizations”)
- Special Publication (SP) 800-37 (“Risk Management Framework”) – core of ISCM
- Interagency Report (IR) 8011 (“Automation Support for Security Control Assessments”)



Benefits

Enables data-driven control of organization’s cybersecurity posture through

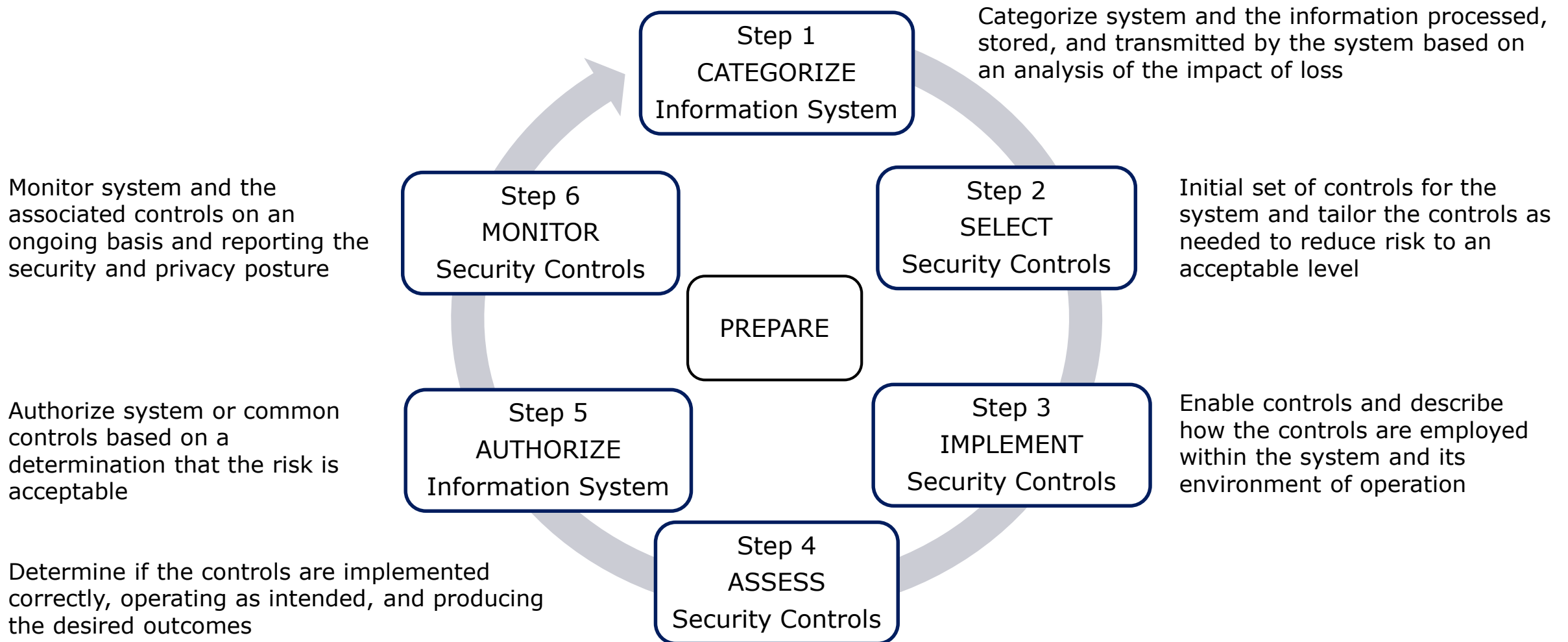
- Increased visibility into assets and awareness of vulnerabilities
- Improve and mature architectures, operational capabilities, and monitoring processes to accelerate response to threats and incidents
- Aligns to threat landscape and organization’s priorities through periodic revision of ISCM strategy and program
- Prioritization of investments, resources and focus based on risk levels and posture
- Review and improve process efficiencies.



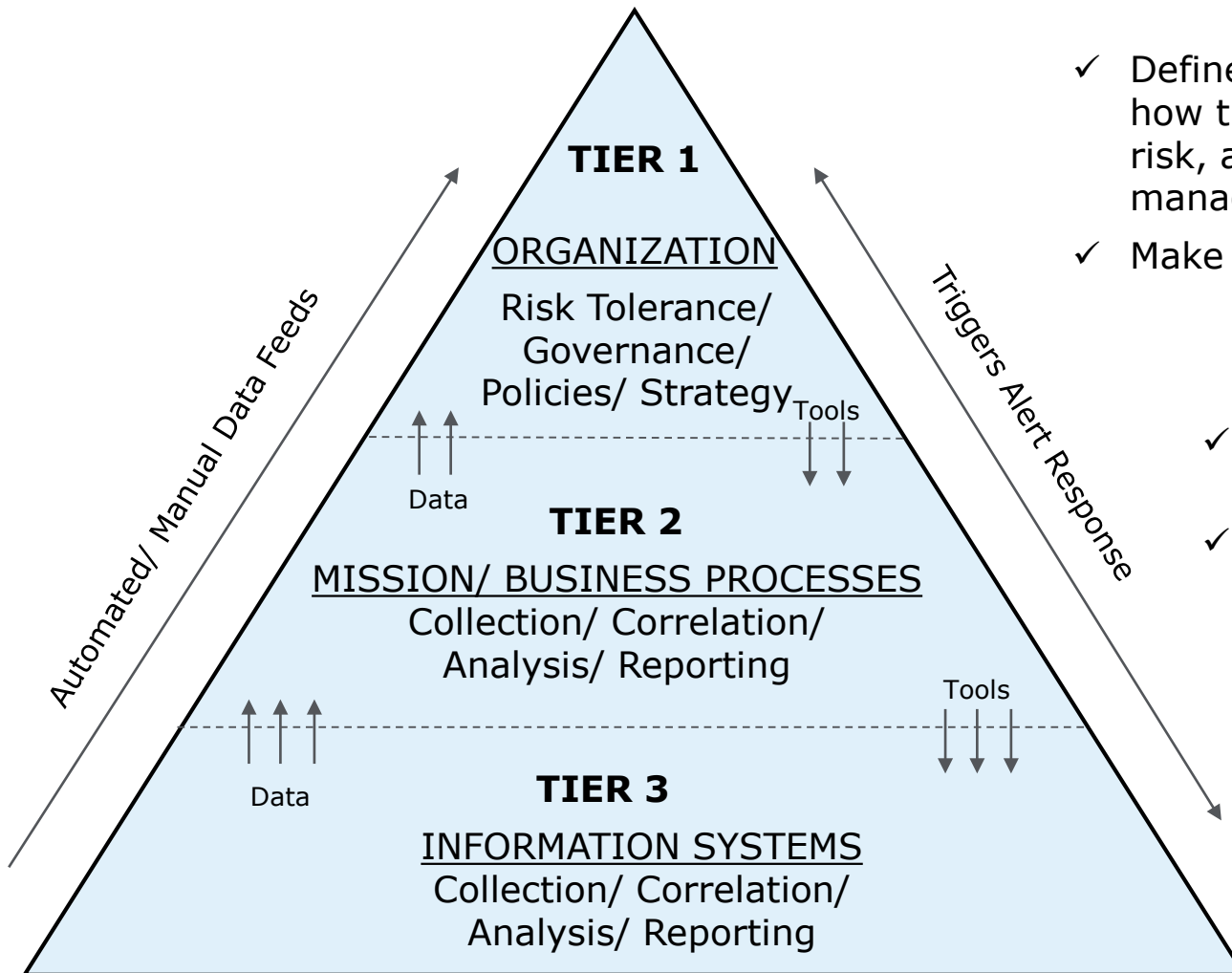
Texas Regulations

Texas Administrative Code (TAC) 202 and House Bill 4214 (Draft)

NIST Risk Management Framework – The Core of ISCM

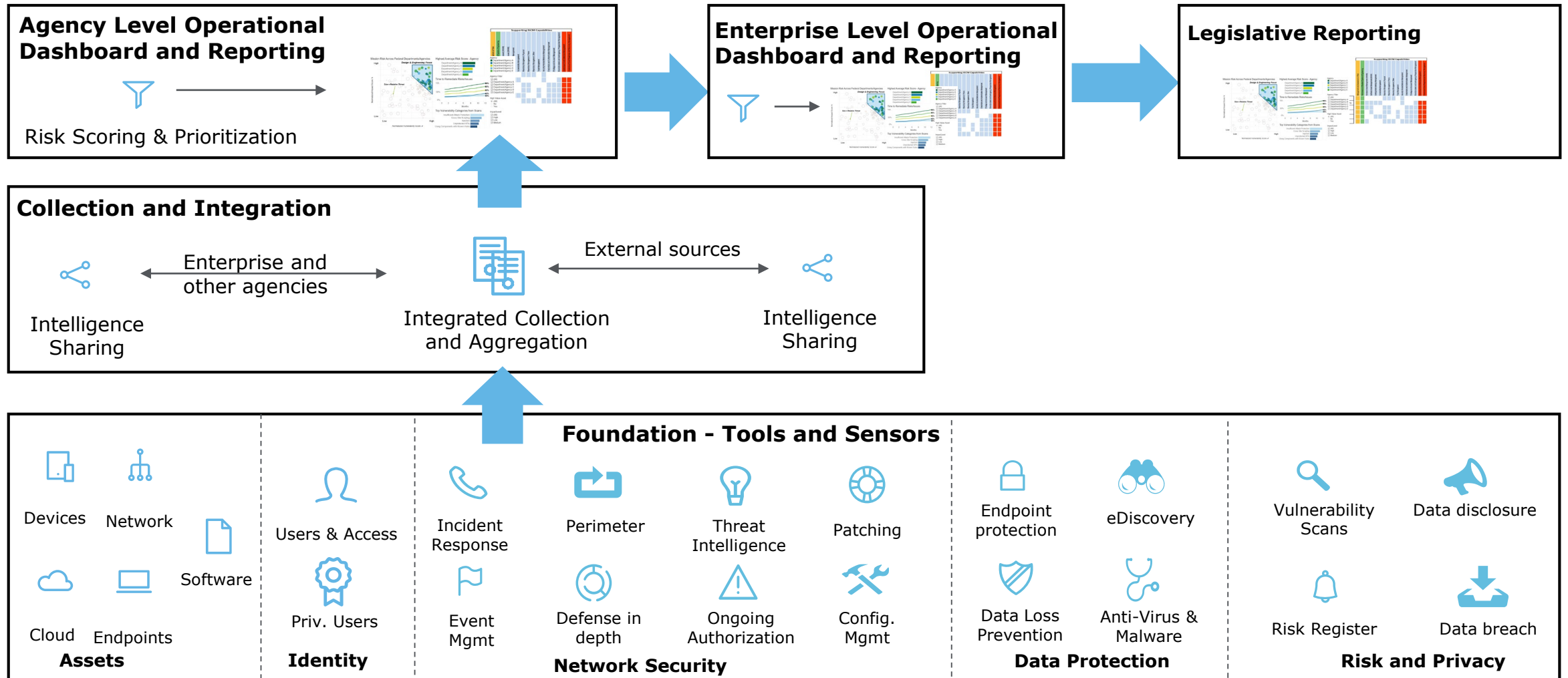


Organization-Wide ISCM and Risk Management Approach

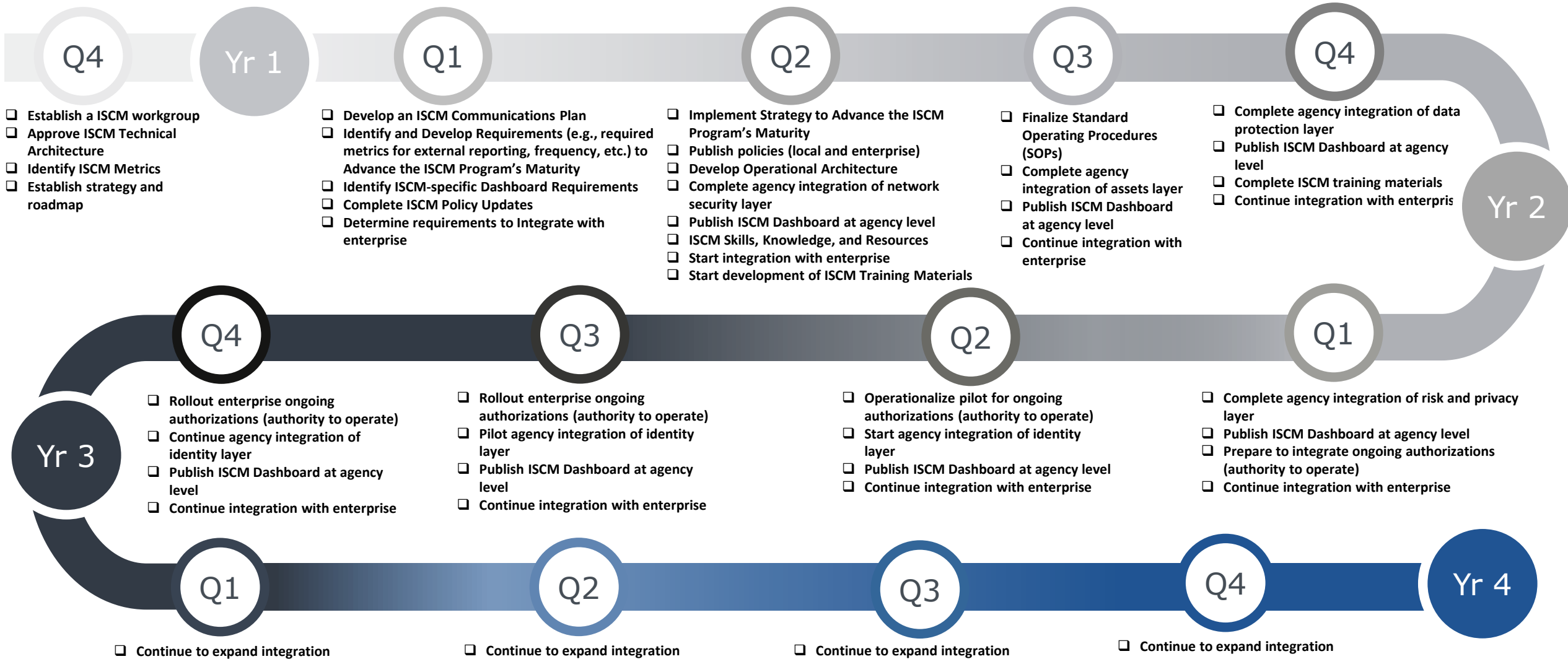


- ✓ Define the organization's risk management strategy, including how the organization plans to assess, respond to, and monitor risk, and the oversight required for an effective risk management strategy
- ✓ Make risk management decisions in support of governance.
- ✓ Prioritization of core mission/business processes with the overall goals and objectives
- ✓ Enable successful execution of the stated mission/business processes, and the organization-wide information security program strategy.
- ✓ Enable system-level security controls are implemented correctly and operate as intended
- ✓ Produce the desired outcome with respect to meeting the security requirements for the system, and continue to be effective over time

Building Blocks for ISCM Program



Typical Roadmap



Expectations of House Bill 4214 (Draft) – Agency Role

(b) Each state agency shall:

(1) Develop and maintain an information security continuous monitoring program that:

- A. Allows the agency to maintain ongoing awareness of the security and vulnerabilities of and threats to the agency's information resources
- B. Provides a clear understanding of organizational risk and helps the agency set priorities and manage the risk consistently
- C. Addresses how the agency conducts ongoing authorizations of information resources technologies and the environments in which those technologies operate, including the agency's use of common controls
- D. Aligns with the continuous monitoring guidance, cybersecurity framework, and risk management framework published in NIST Special Publications 800-137 and 800-53
- E. Addresses critical security controls, including hardware asset management, software asset management, configuration management, and vulnerability management
- F. Requires the integration of cybersecurity products

(2) Establish a strategy and plan to implement a program for the agency

(3) To the extent practicable, establish information security continuous monitoring as an agency-wide solution and deploy enterprise information security continuous monitoring products and services

(4) Submit specified security-related information to the dashboard established under Subsection (c)(3)

(5) Evaluate and upgrade information resources technologies and deploy new products, including agency and component information security continuous monitoring dashboards, as necessary to support information security continuous monitoring and the need to submit security-related information requested by the department

(6) Require that external service providers hosting state information meet state information security requirements for information security continuous monitoring

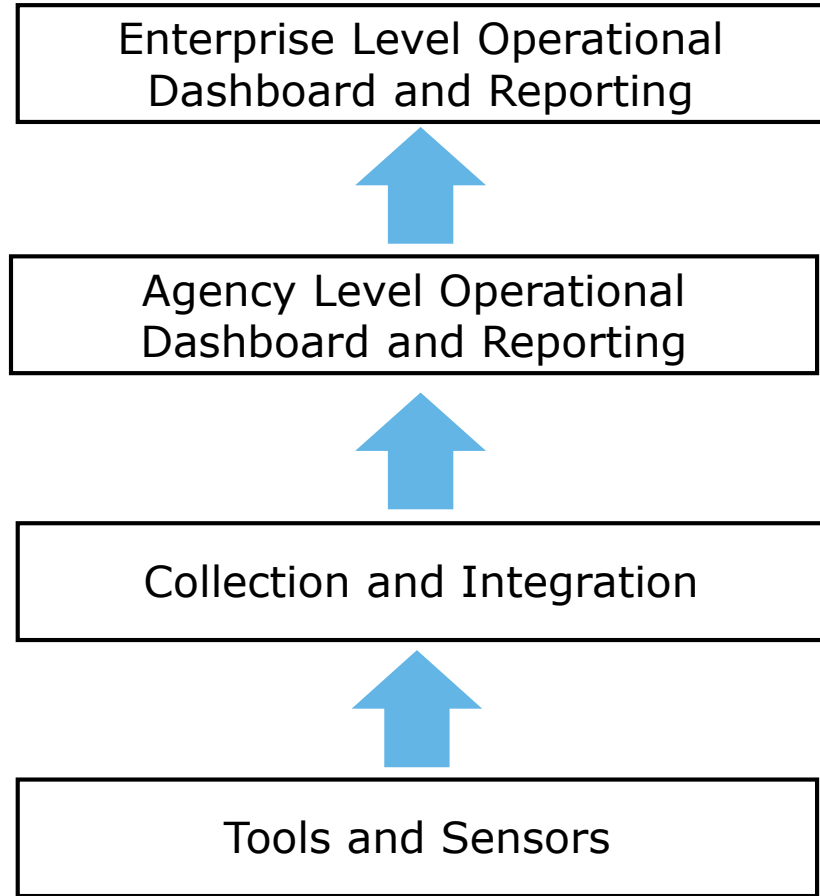
(7) Ensure the agency has adequate staff with the necessary training to meet the objectives of the program

Expectations of House Bill 4214 (Draft) – DIR Role

(c) The department shall:

- (1) oversee the implementation of this section by each state agency
- (2) monitor and assist each state agency in implementation of a program and related strategies
- (3) establish a statewide dashboard for information security continuous monitoring that provides:
 - A. A government-wide view of information security continuous monitoring; and
 - B. technical specifications and guidance for state agencies on the requirements for submitting information for purposes of the dashboard.

Fiscal impact considerations



Key component for fiscal impact

- Business analytics tools
- Configuration, analysis and monitoring services



Key components for fiscal impact

- Log aggregators and SIEM
- Configuration, analysis and monitoring services

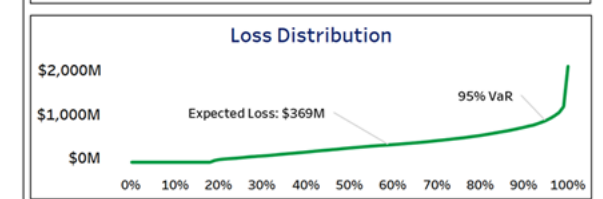
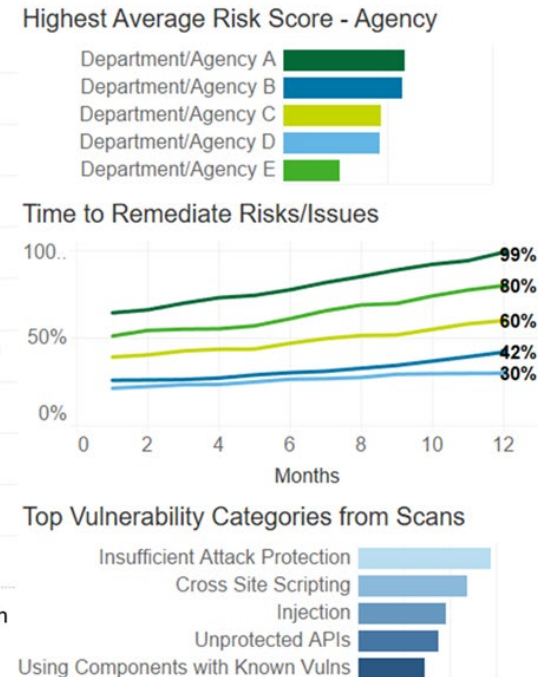
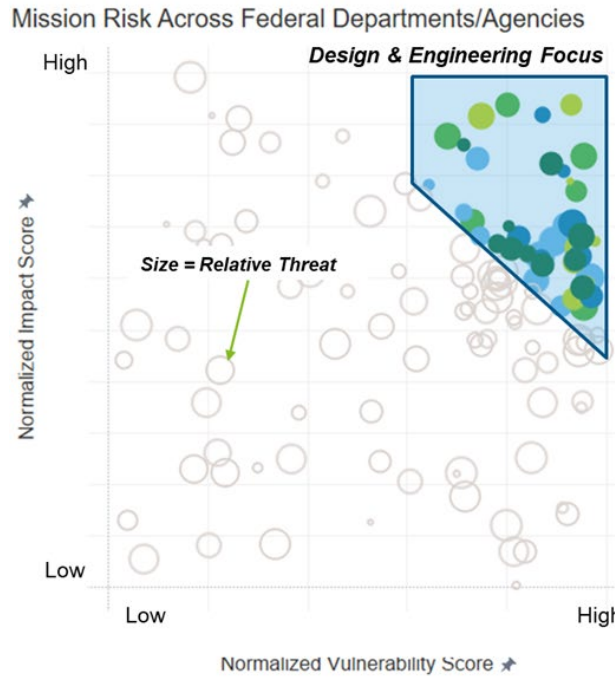
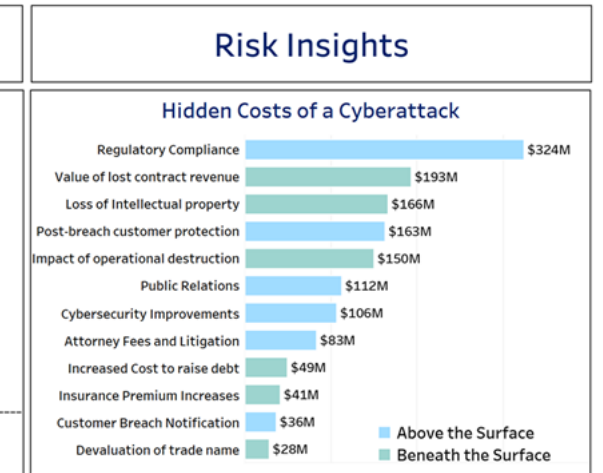
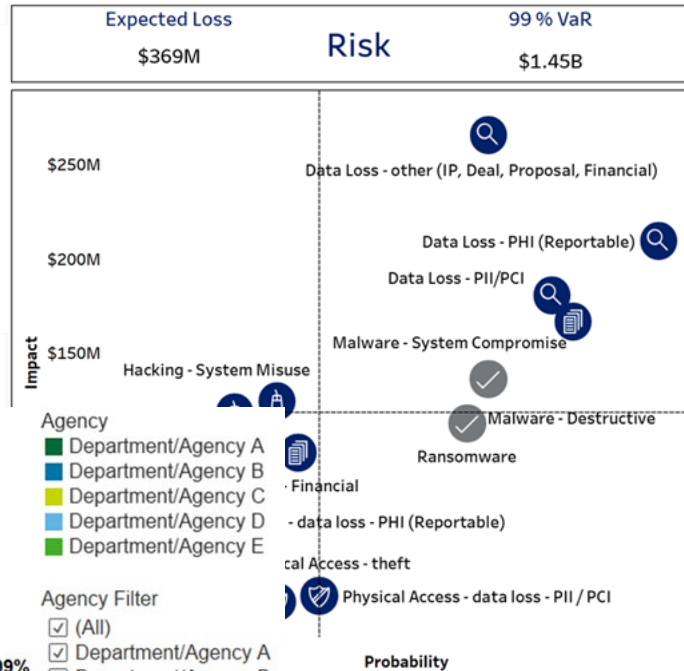


Key component for fiscal impact

- Tools and services not currently available to agencies

Example Dashboard

- Identify
- Protect
- Detect
- Respond
- Recover





Please reach out to DIR Security for questions
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