CISA CYBERSECURITY SERVICES

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CISA Mission and Vision

MISSION:

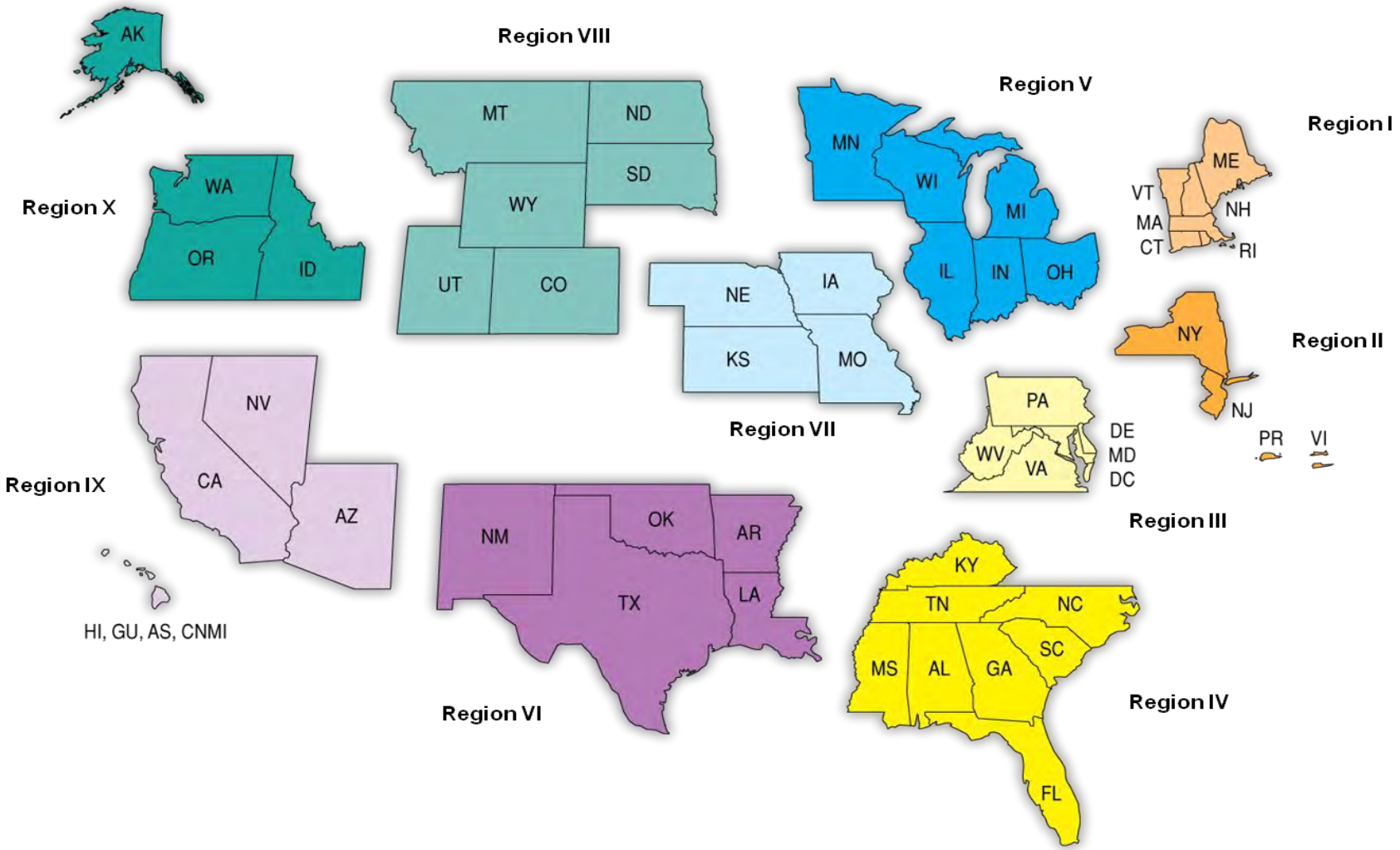
We lead the National effort to understand, manage, and reduce risk to our cyber and physical infrastructure.

VISION:

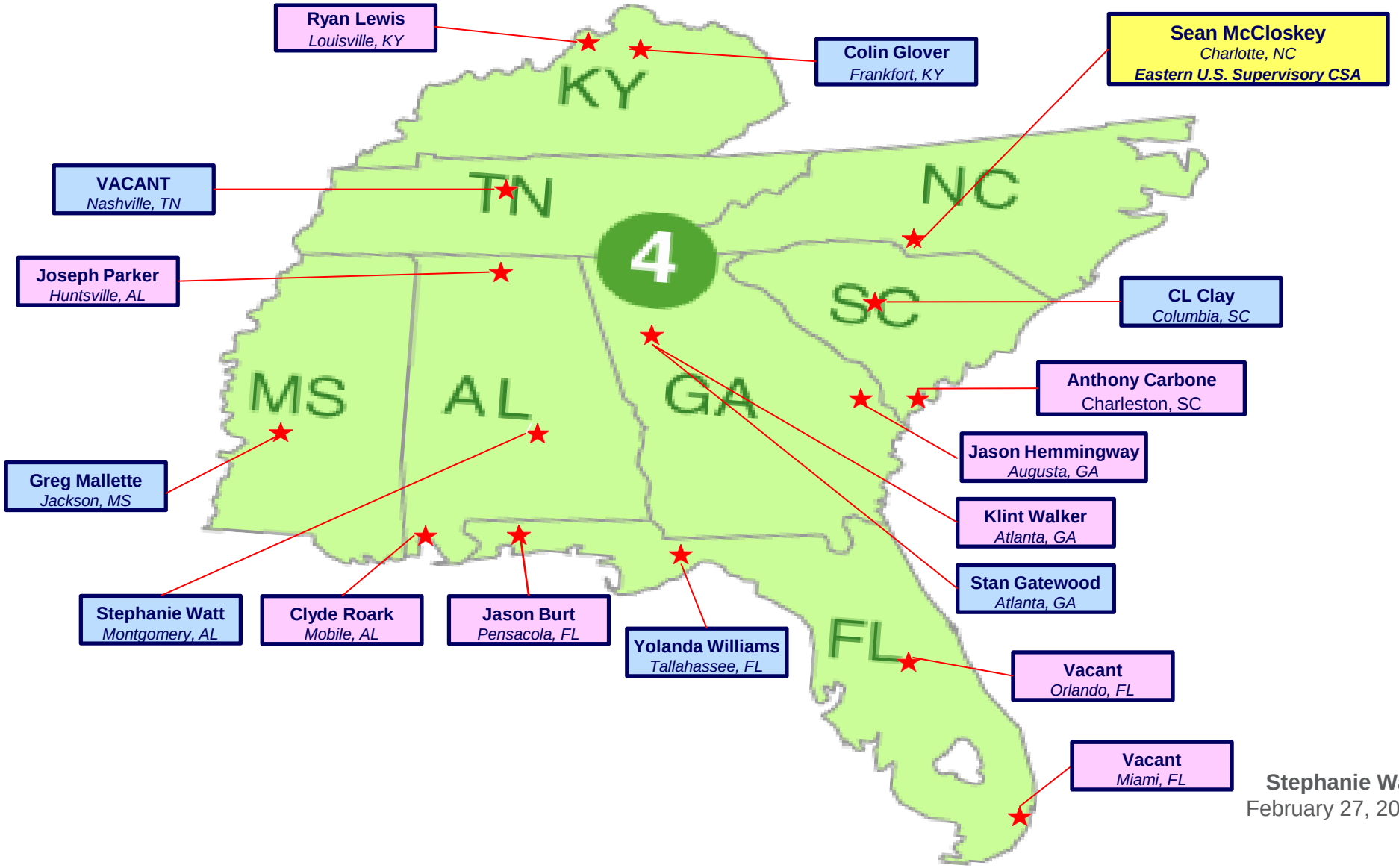
Secure and resilient infrastructure for the American people.

CYBERSECURITY ADVISOR PROGRAM

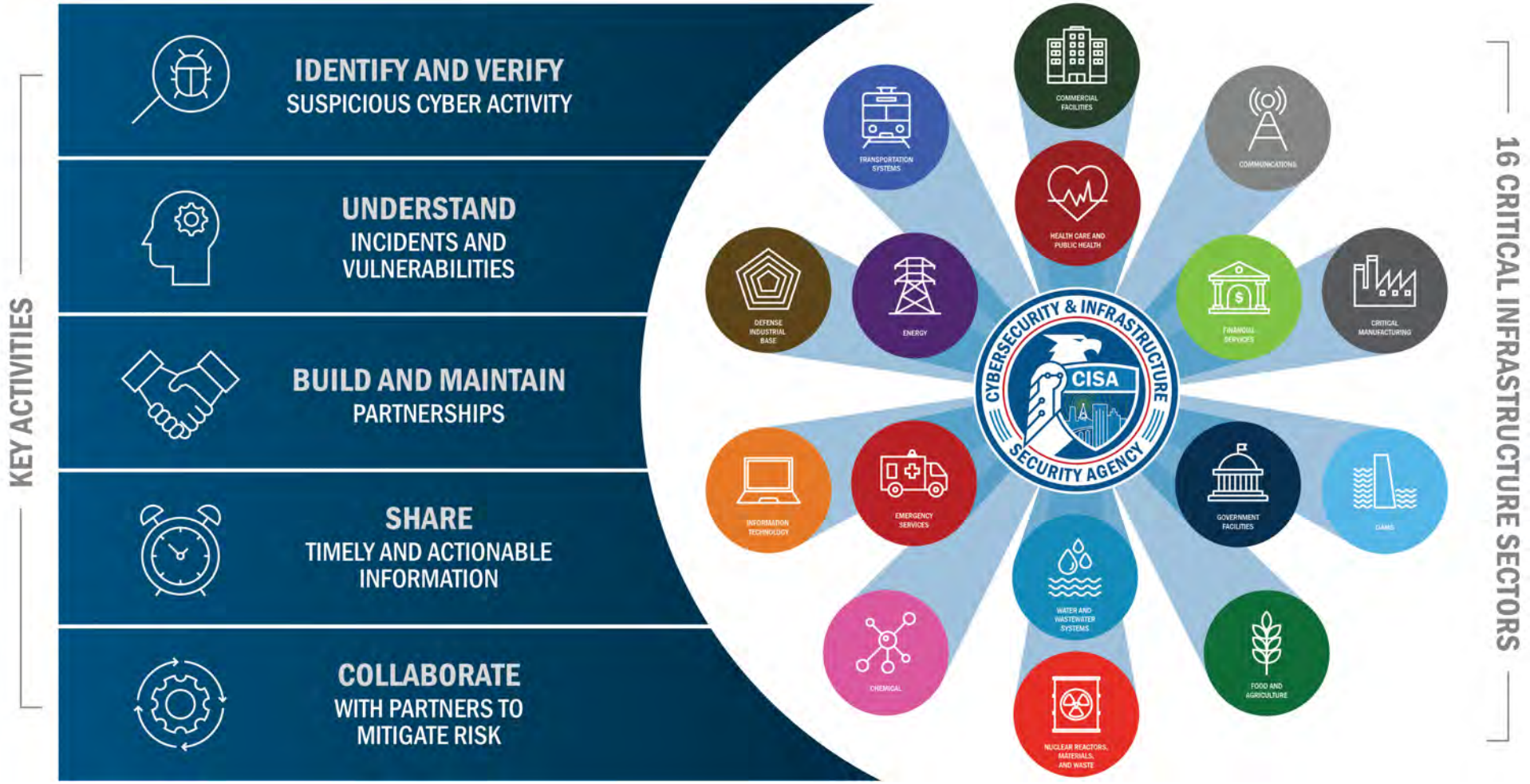
CSA Regionally Deployed Personnel



CISA Region 4 Cyber Support



Serving Critical Infrastructure



CISA CYBER SERVICES

Criticality of Periodic Assessments

- Periodic assessments are essential for resilience
- Can’t protect if you don’t know what needs protection
- Can’t fix what needs if you don’t know what’s wrong

Protected Critical Infrastructure Information Program

Protected Critical Infrastructure Information (PCII) Program Guards Your Information

- Sensitive critical infrastructure information voluntarily given to CISA is protected by law from
  - Public release under Freedom of Information Act requests,
  - Public release under State, local, tribal, or territorial disclosure laws,
  - Use in civil litigation and
  - Use in regulatory purposes.

Range of Cybersecurity Services

STRATEGIC
(C-Suite Level)

- Cyber Resilience Review (Strategic)
- External Dependencies Management (Strategic)
- Cyber Infrastructure Survey (Strategic)
- Cybersecurity Evaluations Tool (Strategic/Technical)
- **Vulnerability Scanning / Hygiene (Technical)**

TECHNICAL
(Network-Administrator Level)

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VULNERABILITY SCANNING / HYGIENE

Vulnerability Scanning / Hygiene

Purpose: Assess Internet-accessible systems for known vulnerabilities and configuration errors.

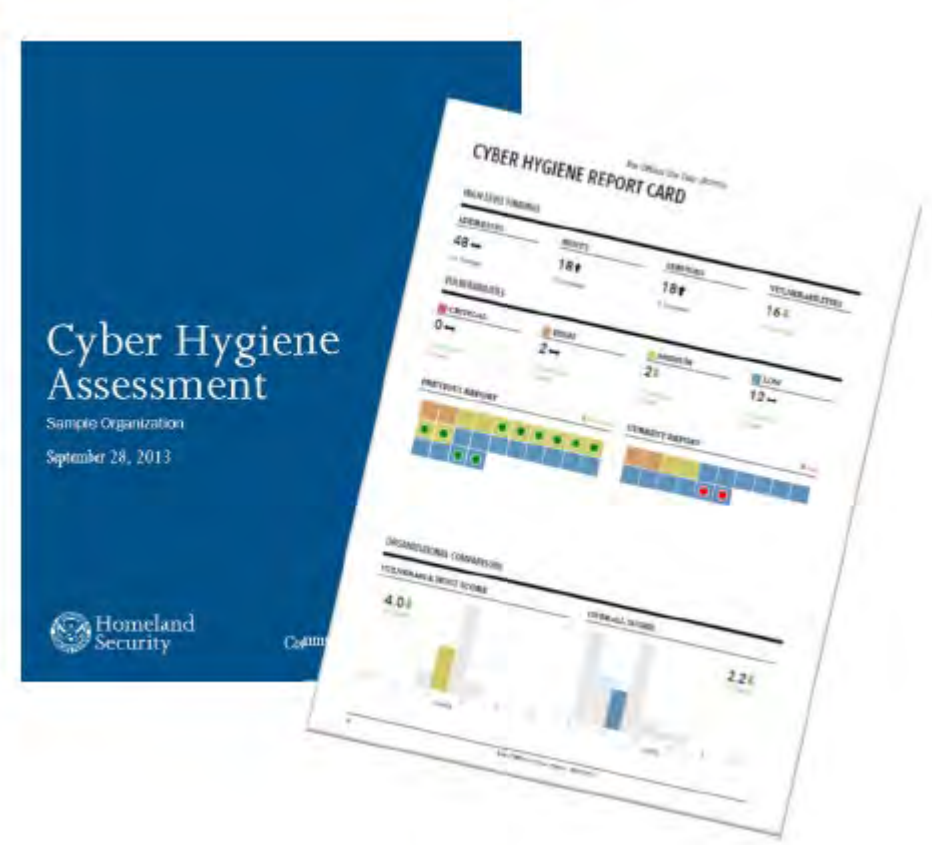
Delivery: Identify public-facing Internet security risks, through service enumeration and vulnerability scanning online by CISA.

Benefits:

- Continual review of system to identify potential problems
- Weekly reports detailing current and previously mitigated vulnerabilities
- Recommended mitigation for identified vulnerabilities

Network Vulnerability & Configuration Scanning:

- Identify network vulnerabilities and weakness



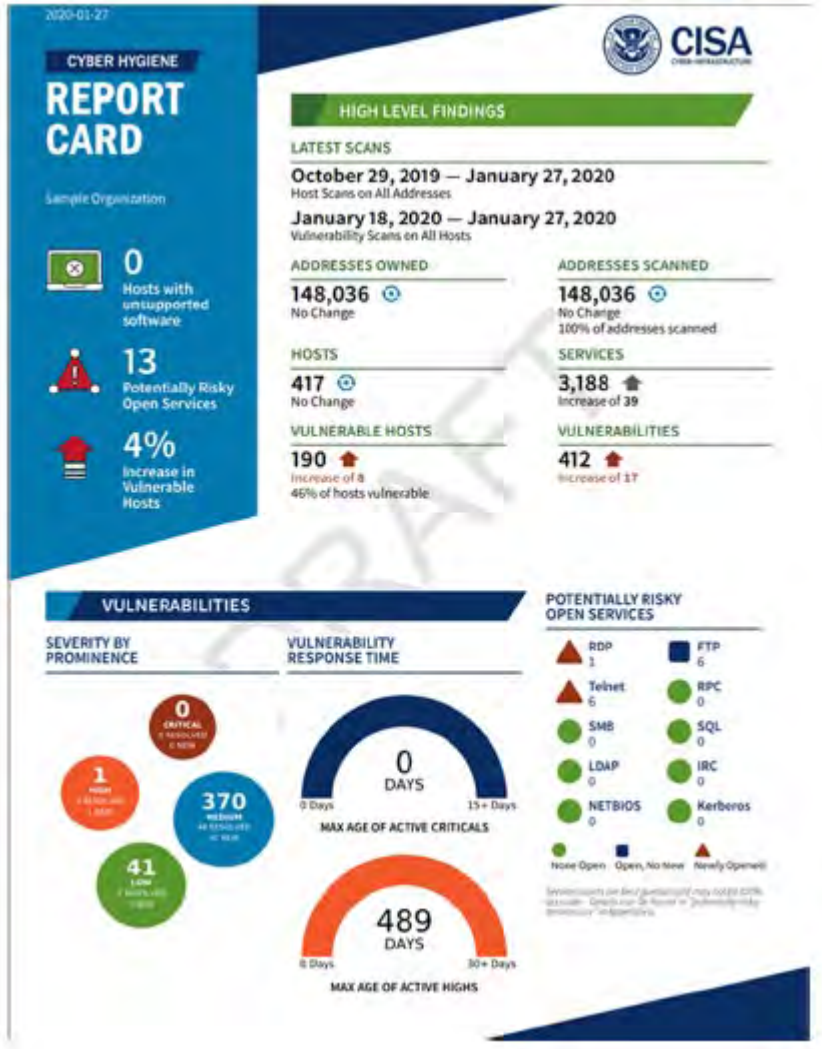
Cyber Hygiene Report Card

High Level Findings

- Latest Scans
- Addresses Owned
- Addresses Scanned
- Hosts
- Services
- Vulnerable Hosts
- Vulnerabilities

Vulnerabilities

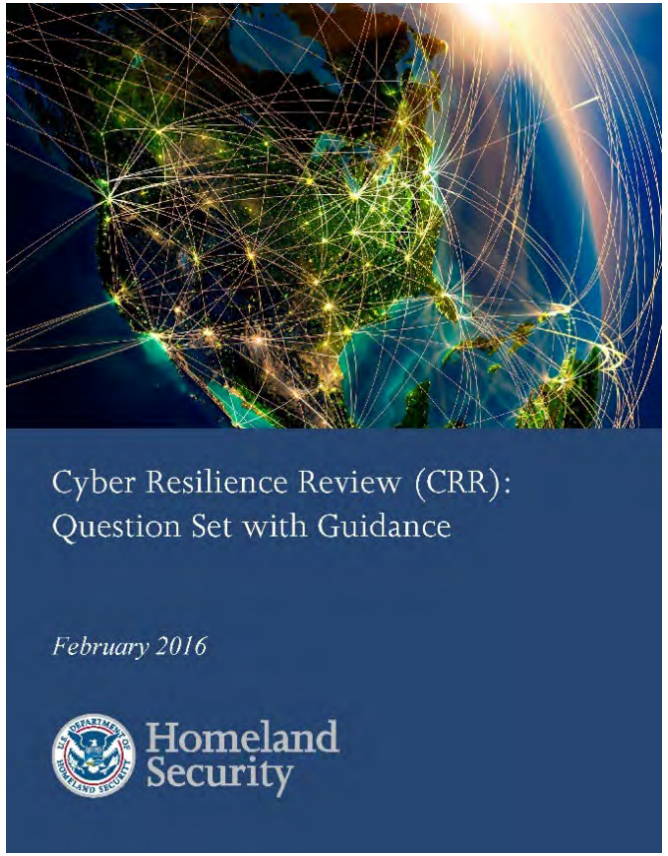
- Severity by Prominence
- Vulnerability Response Time
- Potentially Risky Open Services



CYBER RESILIENCE REVIEW

Cyber Resilience Review

- **Purpose:** Evaluate operational resilience and cybersecurity practices of **critical services.**
- Delivery: Either
  - CSA-facilitated, or
  - Self-administered
- Benefits include: Helps public and private sector partners understand and measure cybersecurity capabilities as they relate to operational resilience and cyber risk



CRR Question Set & Guidance

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Cyber Resilience Review Domains

Asset Management Know your assets being protected & their requirements, e.g., CIA	**Risk Management** Know and address your biggest risks that considers cost and your risk tolerances
Configuration and Change Management Manage asset configurations and changes	**Service Continuity Management** Ensure workable plans are in place to manage disruptions
Controls Management Manage and monitor controls to ensure they are meeting your objectives	**Situational Awareness** Discover and analyze information related to immediate operational stability and security
External Dependencies Management Know your most important external entities and manage the risks posed to essential services	**Training and Awareness** Ensure your people are trained on and aware of cybersecurity risks and practices
Incident Management Be able to detect and respond to incidents	**Vulnerability Management** Know your vulnerabilities and manage those that pose the most risk

For more information: http://www.us-cert.gov/ccubedvp

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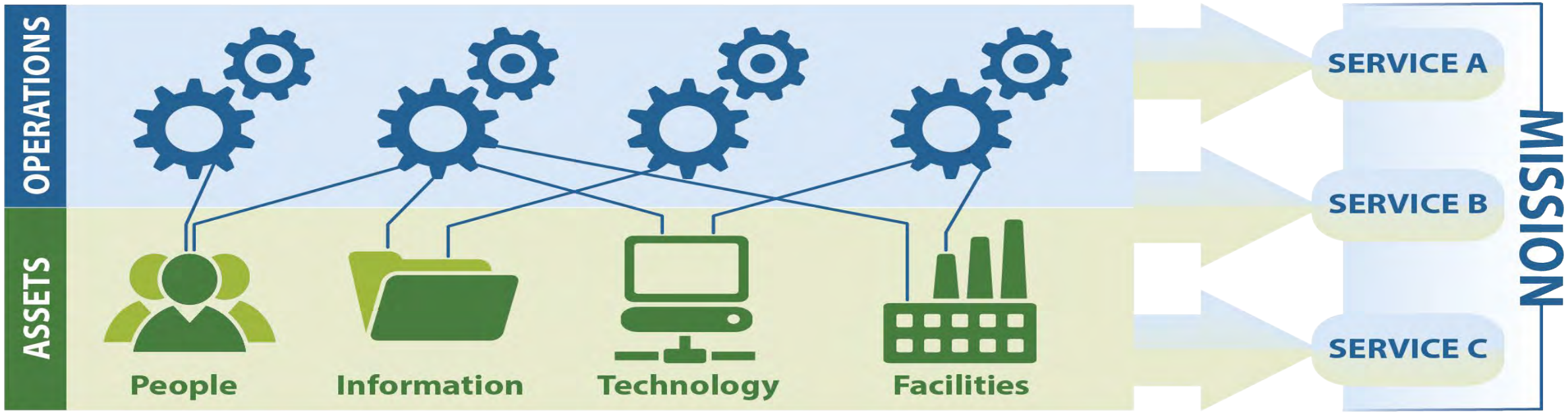
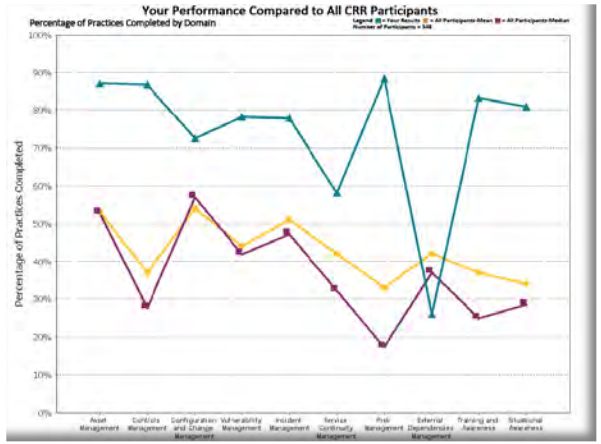
Critical Service Focus

Organizations use **assets (people, information, technology, and facilities)** to provide operational **services** and accomplish **missions.**



CRR Sample Report

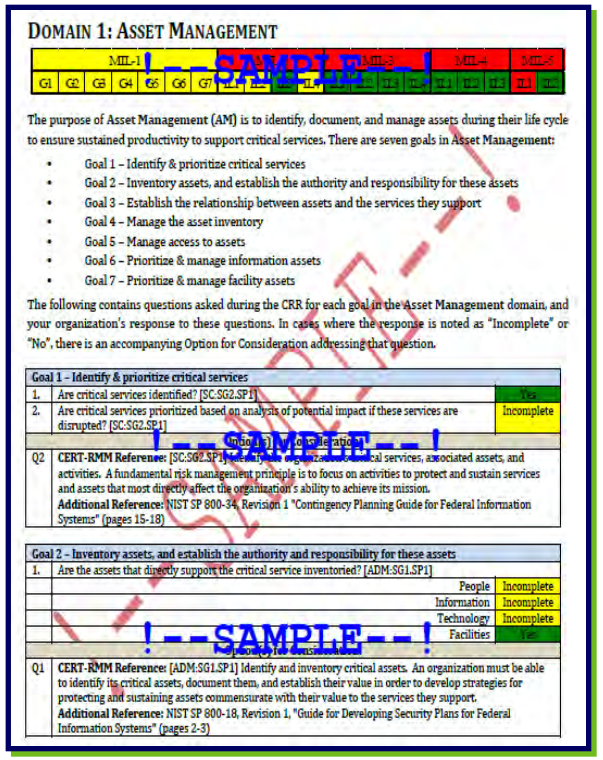
Each CRR report includes:



Comparison data with other CRR participants
**facilitated only*

A summary "snapshot" graphic, related to the **NIST Cyber Security Framework**.

Domain performance of existing cybersecurity capability and options for consideration for all responses



EXTERNAL DEPENDENCIES MANAGEMENT ASSESSMENT

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EDM Assessment Organization and Structure

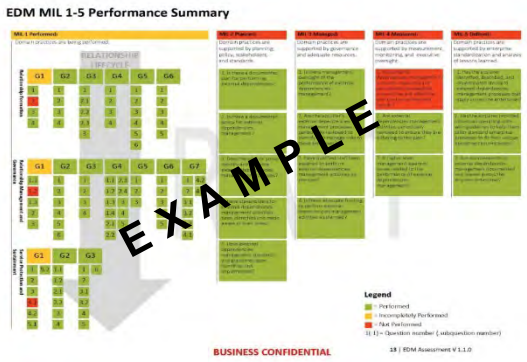
- Structure and scoring similar to Cyber Resilience Review
- Uses one Maturity Indicator Level (MIL) scale with three lifecycle domains.

Relationship Formation *Assesses whether the acquirer evaluates and controls the risks of relying on external entities before entering into relationships with them.*
Relationship Management and Governance *Assesses whether the acquirer manages ongoing relationships to maintain the resilience of the critical service, and mitigate dependency risk.*
Service Protection and Sustainment *Assesses whether the acquirer accounts for its dependence on external entities as part of its operational activities around managing incidents, disruptions, and threats.*

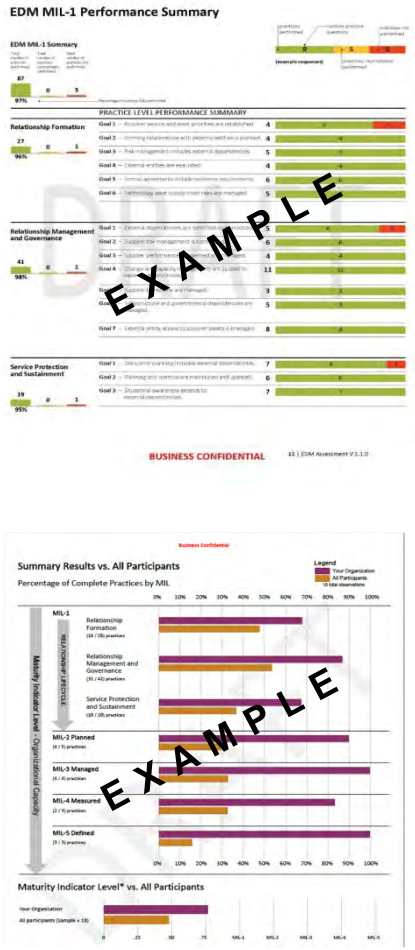
EDM Assessment Report

Each EDM report includes:

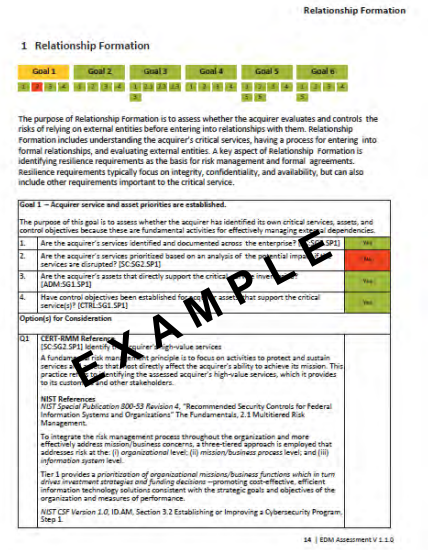
- Performance summary of existing capability managing external dependencies



- Comparison data with other EDM participants



- Sub-domain performance of existing capability managing external dependencies and options for consideration for all responses



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CYBER INFRASTRUCTURE SURVEY

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Cyber Infrastructure Survey (CIS)

- Purpose: Evaluate security controls, cyber preparedness, overall resilience.
- Delivery: CSA-facilitated
- Benefits:
  - Effective assessment of cybersecurity controls in place for a critical service,
  - Easy-to-use interactive dashboard to support cybersecurity planning and resource allocation.

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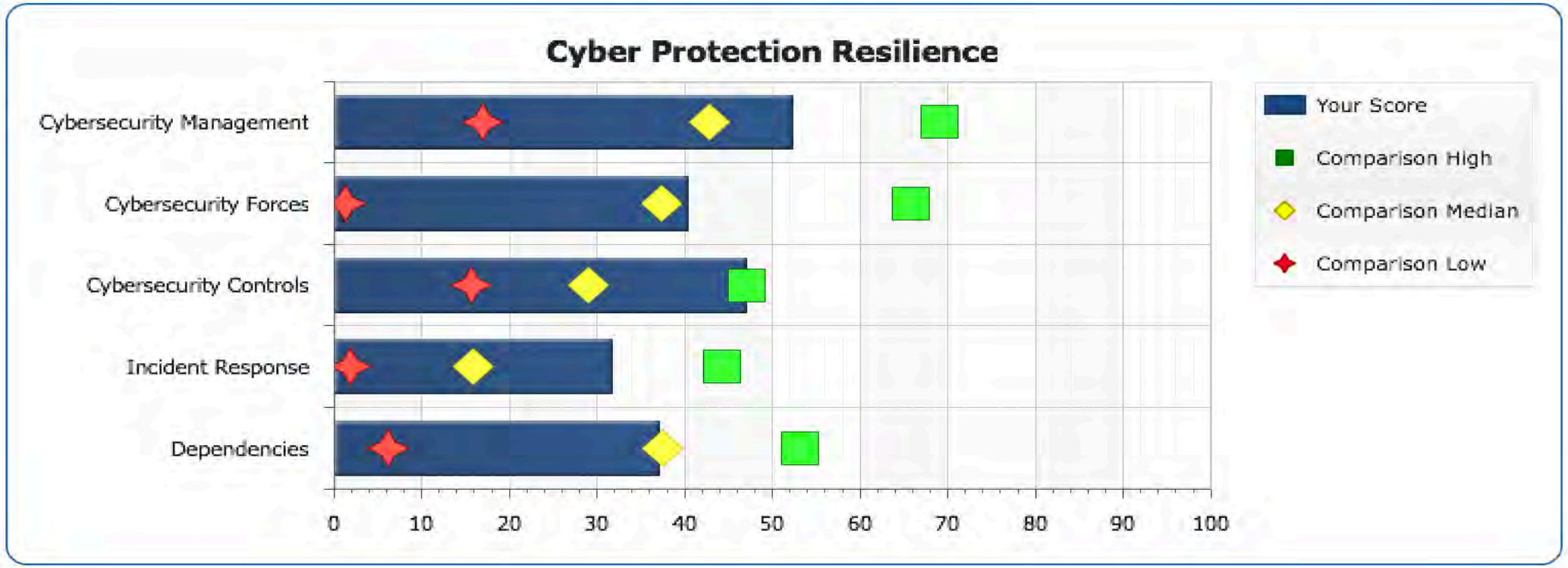
CIS Dashboard - Comparison

- Shows the low, median, and high performers
- Compares your organization to the aggregate



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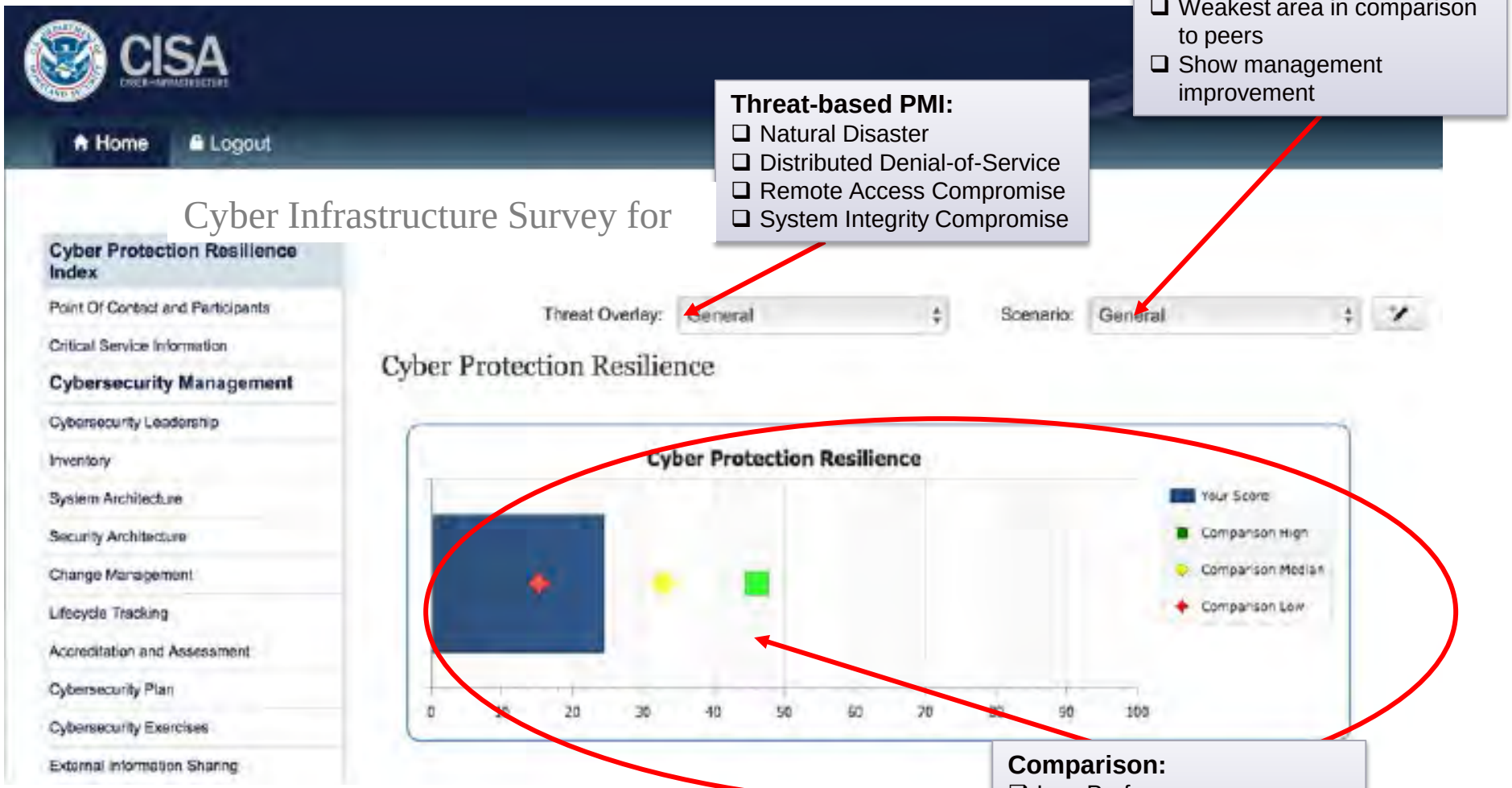
Example of CIS Dashboard



Threat-based PMI:
- ❑ Natural Disaster
- ❑ Distributed Denial-of-Service
- ❑ Remote Access Compromise
- ❑ System Integrity Compromise

Scenario:
- ❑ Where should we to invest?
- ❑ Weakest area in comparison to peers
- ❑ Show management improvement

Comparison:
- ❑ Low Performers
- ❑ Median Performers
- ❑ High Performers

CISA Resources

- Known Exploited Vulnerabilities Catalog | CISA
- Free Cybersecurity Services and Tools | CISA
- Downloading and Installing CSET | CISA
- Release Ransomware Readiness Assessment CSET v10.3 · cisagov/cset · GitHub

PISCES

- No-Cost cybersecurity monitoring effort for small public organizations
- Benefits:
  - Provides small communities with professional cybersecurity analysts
  - Prepares students to succeed in the cybersecurity workforce
  - Provides Universities structured curriculum and hands-on learning experiences
  - Information sharing between communities and state fusion center

How to Reach Us

Contact Information

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