



Virtual Safety Program

SPELL JIF Virtual Vulnerability Seminar July 19, 2023



10TH ANNUAL ED TECH SURVEY¹

- Cybersecurity topped educational technology leaders concerns for the 6th straight year.
- Only 1/3 of districts have at least a single person dedicated to focus on information/network security!
- 12% of districts allocate \$ 0 to cybersecurity.
- 2/3 of district do not feel they have adequate cybersecurity protections or funding.
- 1/3 of respondents had a cyber attack in the last year.

1-[COSN - 2023 State of Ed Tech Leadership Su](#)



VIRTUAL SAFETY PROGRAM

- Changing how schools look at safety
- Review of threat landscape facing schools
- Overview of SPELL Virtual Safety Program



HOW DOES YOUR DISTRICT LOOK AT SAFETY?.....

- There is no one universal safety plan to help schools respond to the myriad of threats they are facing
- Your safety program needs to be holistic across your district involving stakeholders at all levels with the goal to mitigate risk and neutralize threats proactively.
- A number of those threats include some kind of connection to technology, but that does not always make them a problem for the technology department. Threat/Risk Management needs to be across the district.

SCHOOL THREAT LANDSCAPE – INFORMATION SECURITY

- Social Engineering
- Phishing
- Ransomware
- Business Email Compromise
- Data Breach
- Cyber Hygiene
- Cloud Vulnerabilities
- Mobile Device Vulnerabilities
- Internet of Things Vulnerabilities
- Configuration Mistakes
- Poor Data Management
- Inadequate Post Attack Procedures

SCHOOL THREAT LANDSCAPE – STUDENT SAFETY

- Student Accidents
- Online Bullying
- Exposure to inappropriate content
- Online Predation

SCHOOL THREAT LANDSCAPE – EMERGENCY PREPAREDNESS

Adversarial - Human Caused Threats

- Fire Alarm – Fire Emergency
- Missing Student
- Suspicious Package
- Bus /Field Trip Accident
- Staff Misconduct
- Gang violence
- Bomb Threats
- Suicide of Staff/Student
- Cyber Attacks
- Active Shooter

Technological Hazards

- Outdoor Air Quality Issues
- Utilities Failure – Electric, Gas, Water
- Building Flood – Clean Water, Grey Water, Black Water
- HVAC Equipment Failure – Indoor Air Quality Issues
- Accidental Release – Hazardous Materials(in School)
- Accidental Release – Hazardous Materials(outside School)
- Explosions
- Pipeline Leak, Aircraft Accident, Nuclear Release

SCHOOL THREAT LANDSCAPE – EMERGENCY PREPAREDNESS

Natural Threats

- Winter precipitation
- Lightning
- Wind
- Extreme temperatures
- Floods
- Hurricanes
- Earthquakes
- Wildfires
- Tornadoes

Biological Hazards

- Contaminated Food
- Infectious Disease
- Toxic Materials in School
- Pandemic



SPELL JIF VIRTUAL SAFETY FRAMEWORKS.....

- Information Security Framework
- Student Safety Framework
- Emergency Planning Framework
- Proactive Preventative Maintenance Framework



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Information Security Framework

Identify



Risk Assessment
Asset Management
Governance
Risk Management Strategy

Protect



Identity & Access Control
Awareness Training
Data Security
Information Protection
Processes and Procedures
Maintenance
Protective Technology

Detect



Anomalies and Events
Security Continuous Monitoring
Detection Processes

Recover

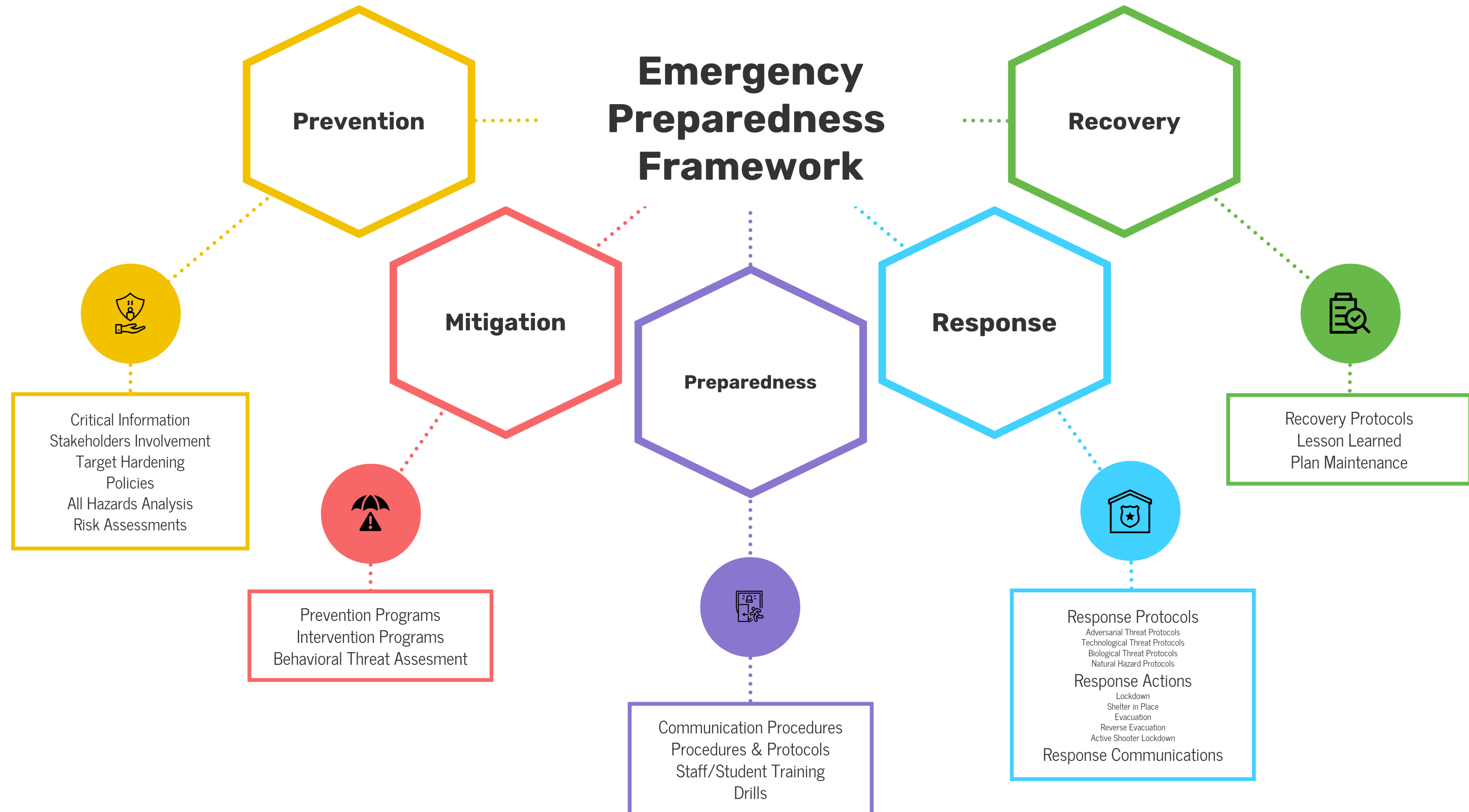


Recovery Planning
Improvements
Communications

Respond



Response Planning
Communications
Analysis
Mitigation
Improvements





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Student Safety Framework

Safe School Buildings



Periodic Safety Reviews
Process to Report Concerns
Repair Timelines
Task Accountability

Educational Continuity



One to One Initiatives
BYOD Risk Assessments

Student Online Safety



Visibility into Online Activity
Classroom IT Management Tools
Dedicated Student IT Support
Incident Reporting

Visible Risk Reduction



Less downtime
Safe Secure Facilities
Parental Communications

Student Resilience



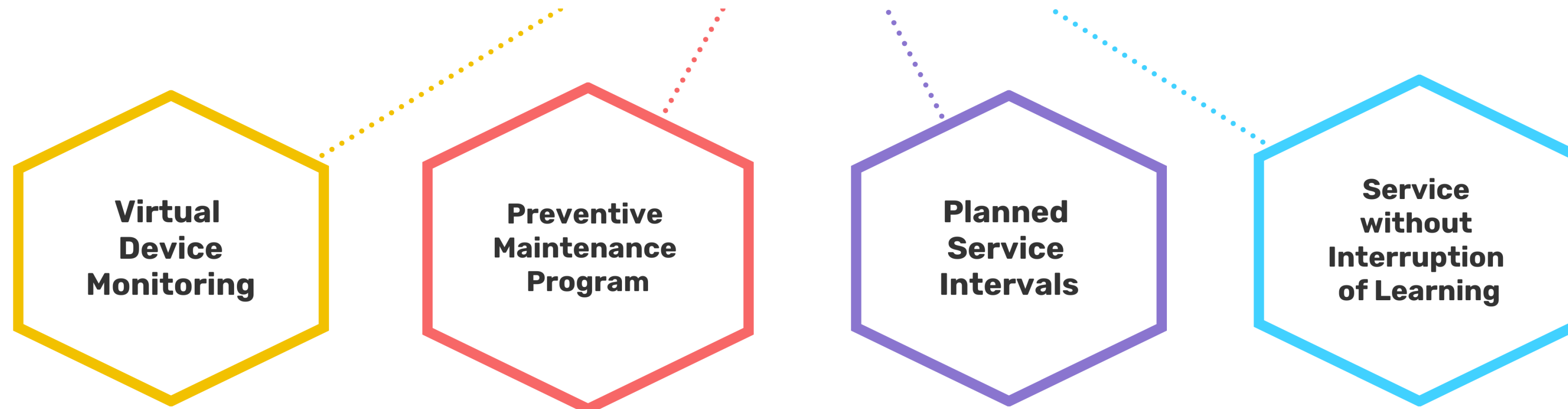
Student Skills Improvement
Self Help Tools
Online Reporting of Concerns



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Proactive Preventative Maintenance Framework

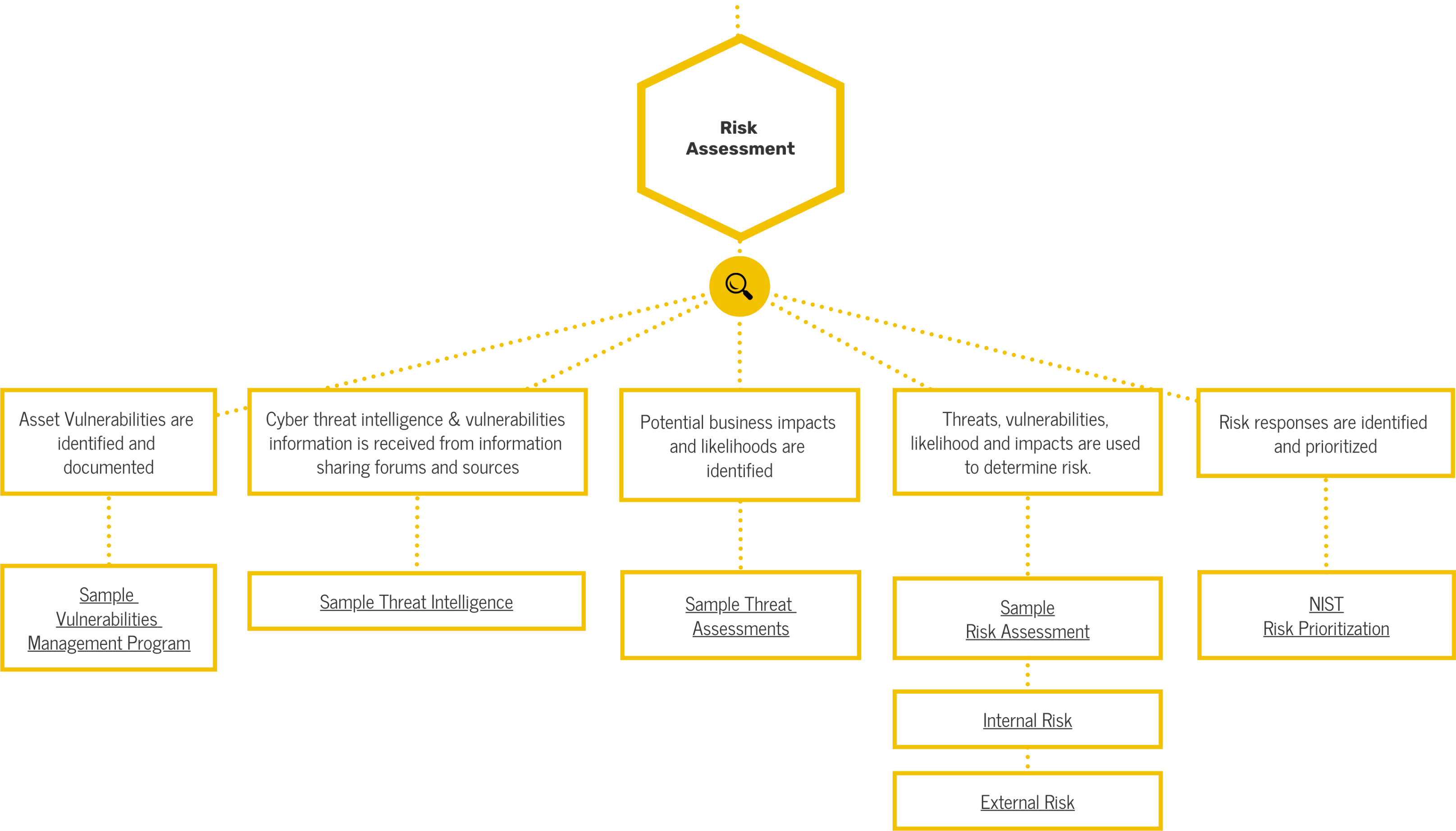


SPELL JIF VIRTUAL SAFETY PROGRAM

- Over the next year we will develop each of these frameworks to provide member districts with the resources and sample documentation to implement them.
- The goals of the frameworks are to help member district's continue to respond proactively to threats and mitigate or neutralize risk.

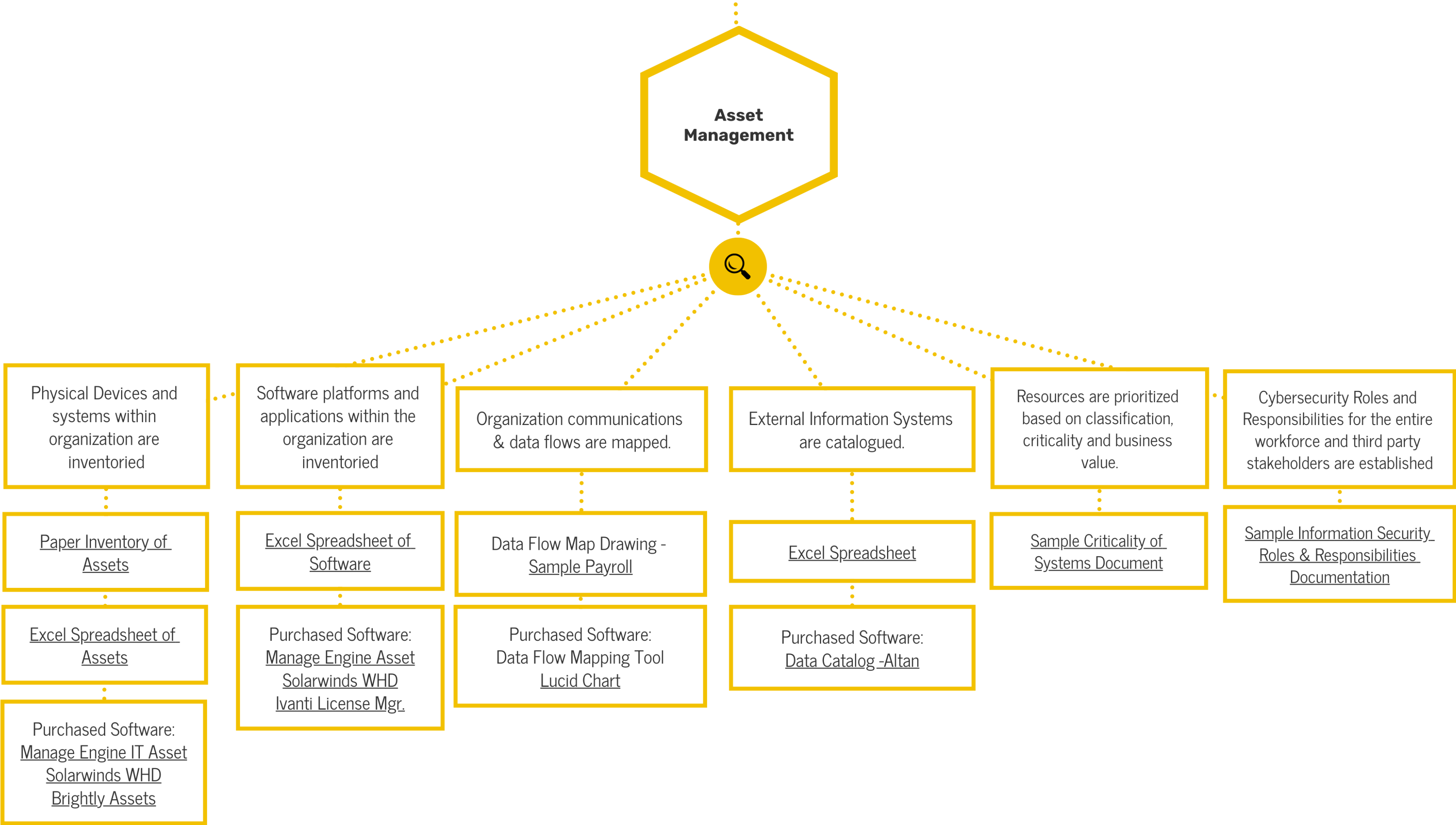
INFORMATION SECURITY FRAMEWORK - IDENTIFY - RISK ASSESSMENT

Information Security Framework



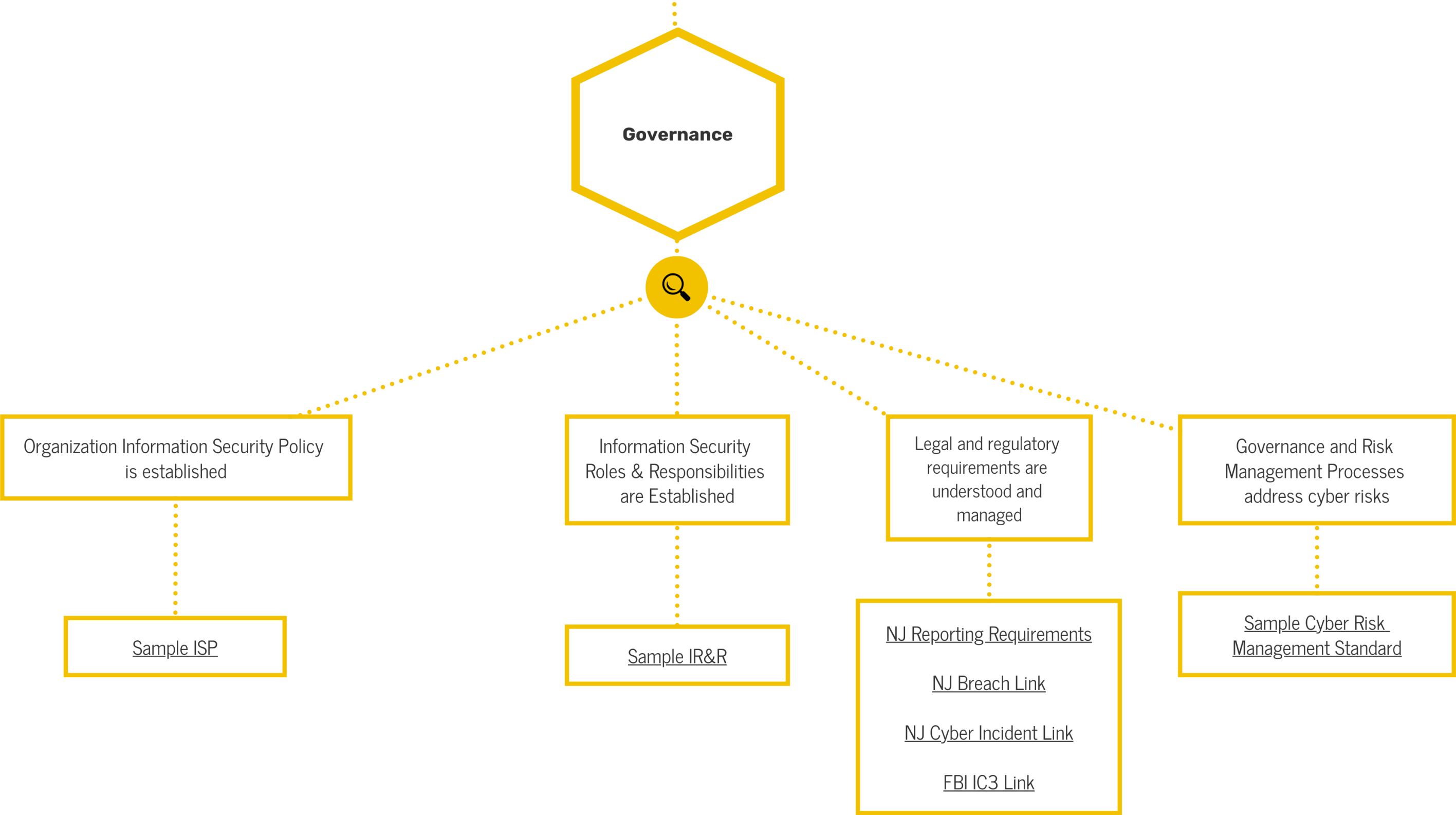
INFORMATION SECURITY FRAMEWORK - IDENTIFY - ASSET MANAGEMENT

Information Security Framework



INFORMATION SECURITY FRAMEWORK - IDENTIFY - GOVERNANCE

Information Security Framework

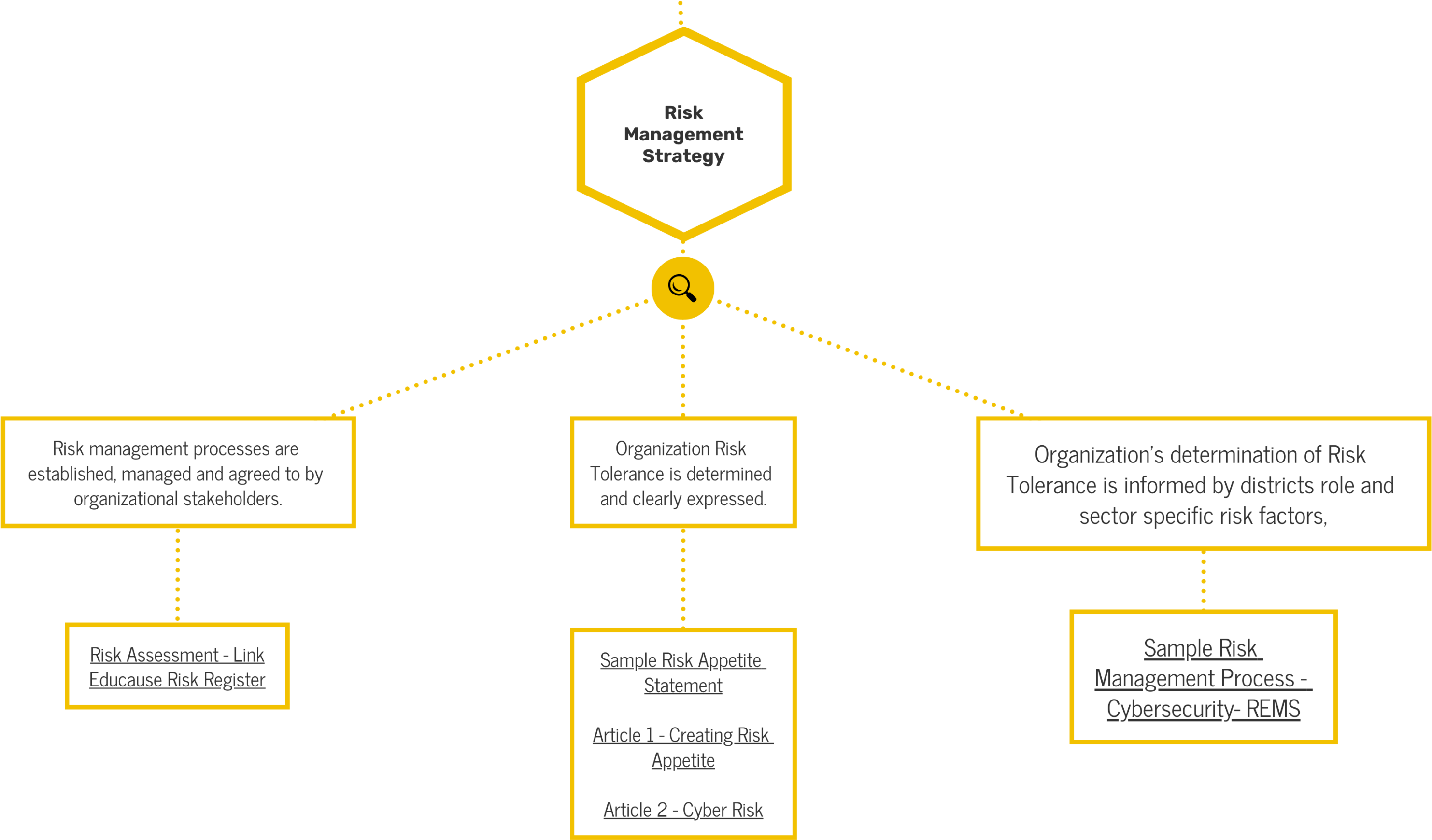


INFORMATION SECURITY FRAMEWORK - IDENTIFY - GOVERNANCE

Written Information Security Policy

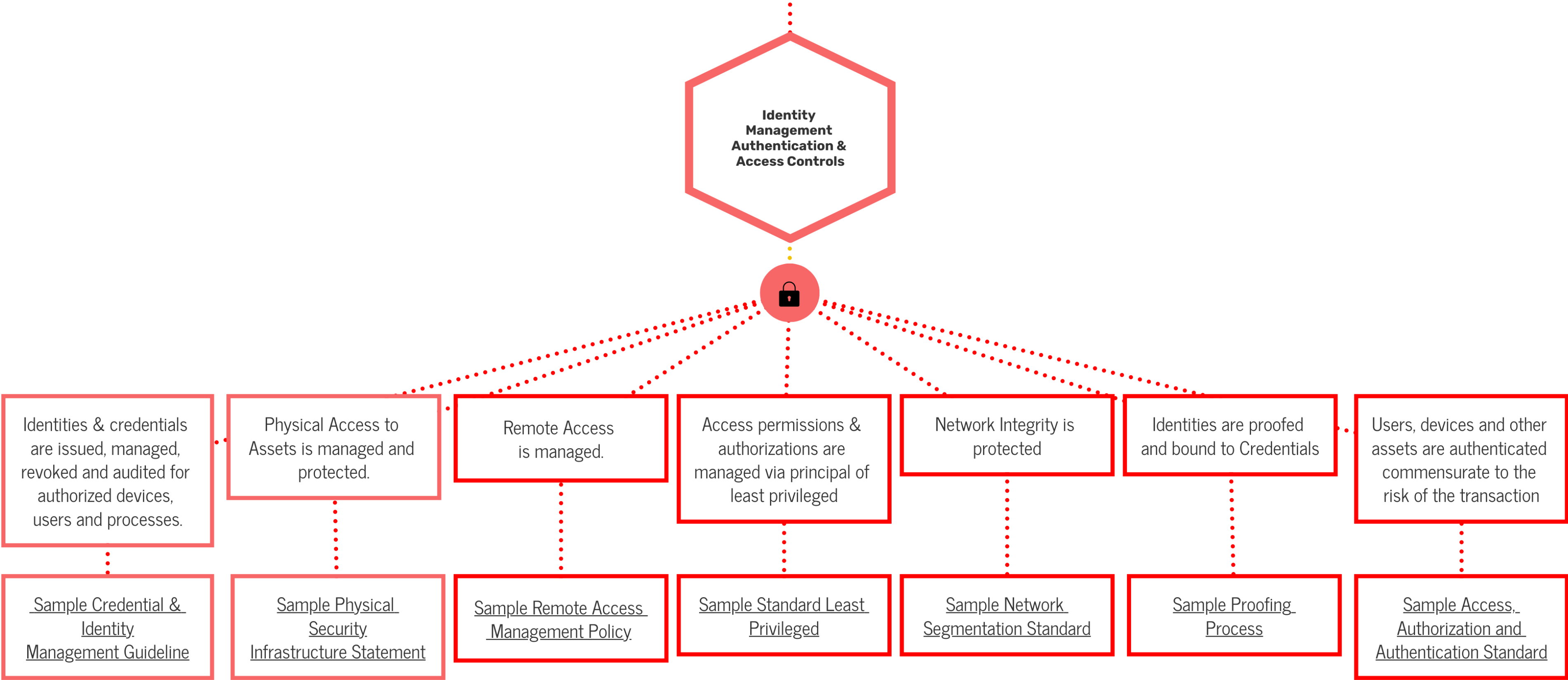
INFORMATION SECURITY FRAMEWORK - IDENTIFY - RISK MANAGEMENT

Information Security Framework



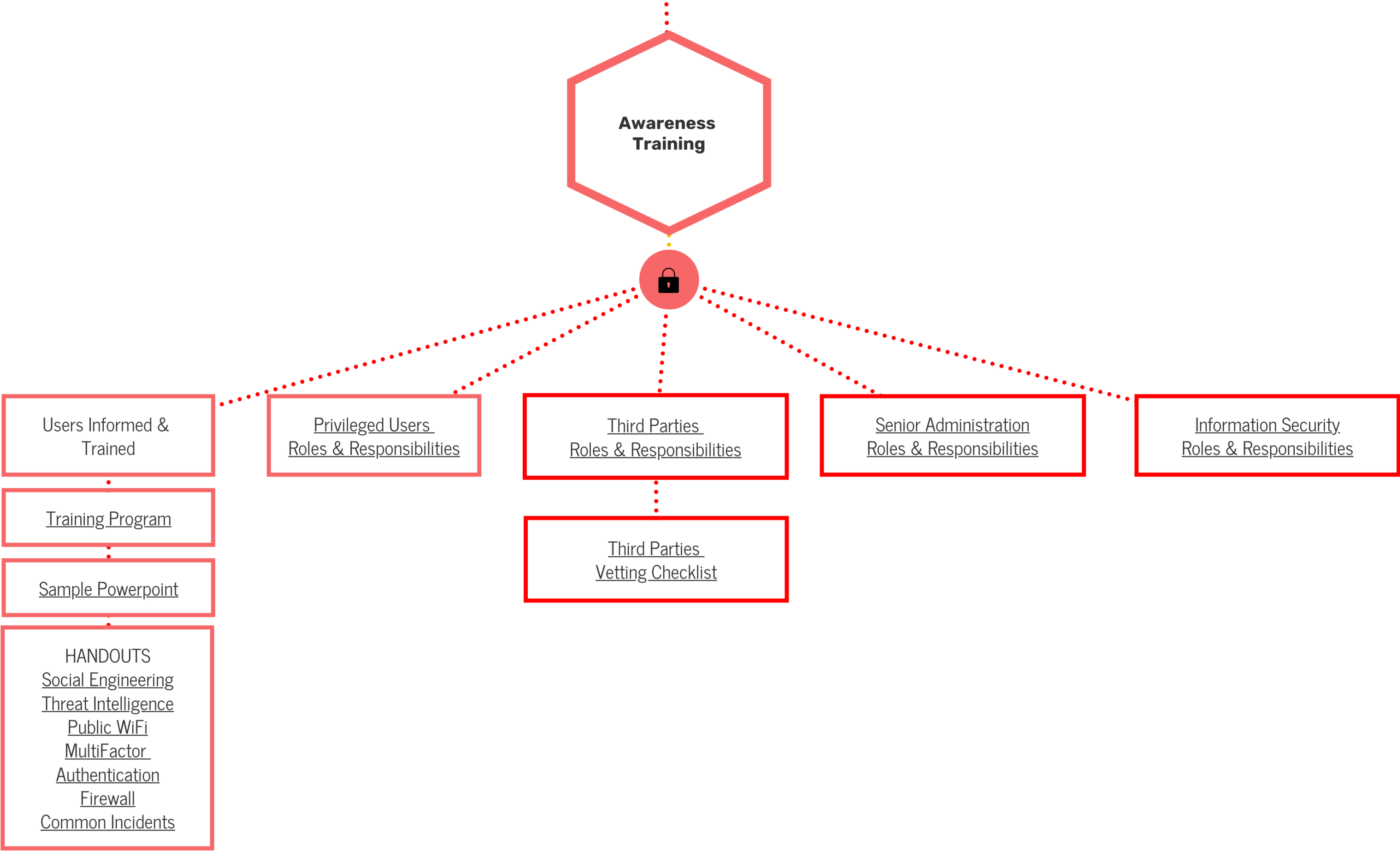
INFORMATION SECURITY FRAMEWORK - PROTECT - IDENTITY MANAGEMENT

Information Security Framework



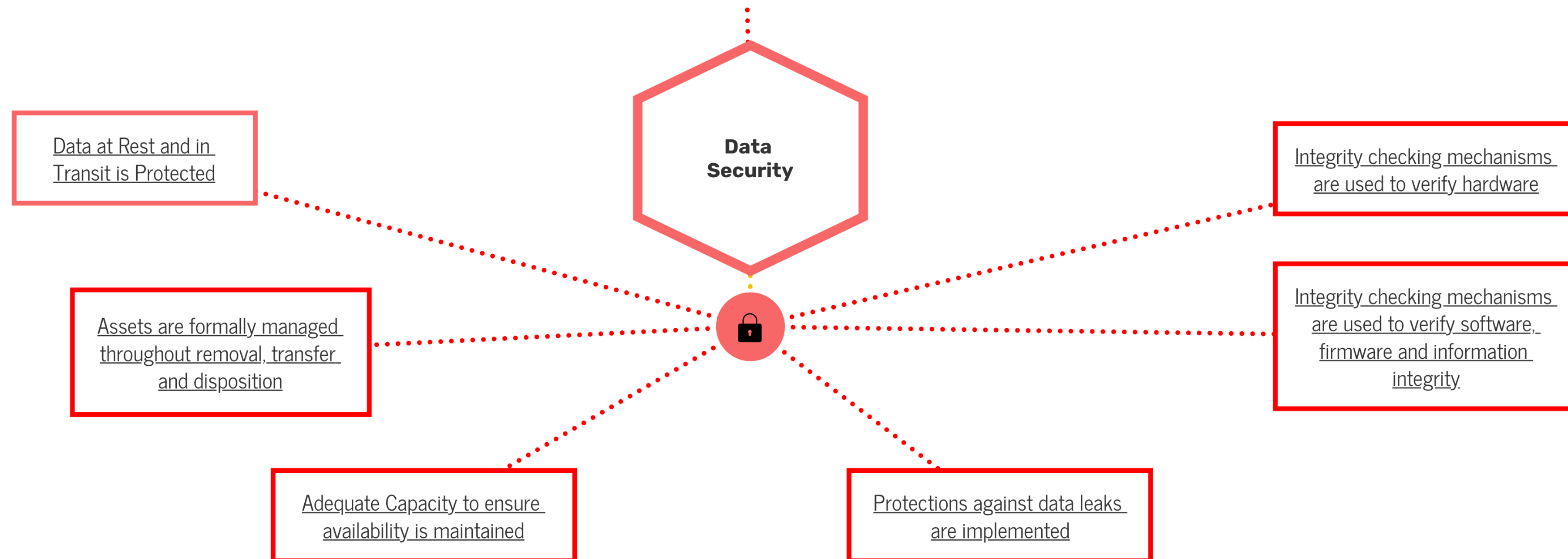
INFORMATION SECURITY FRAMEWORK - PROTECT - AWARENESS TRAINING

Information Security Framework



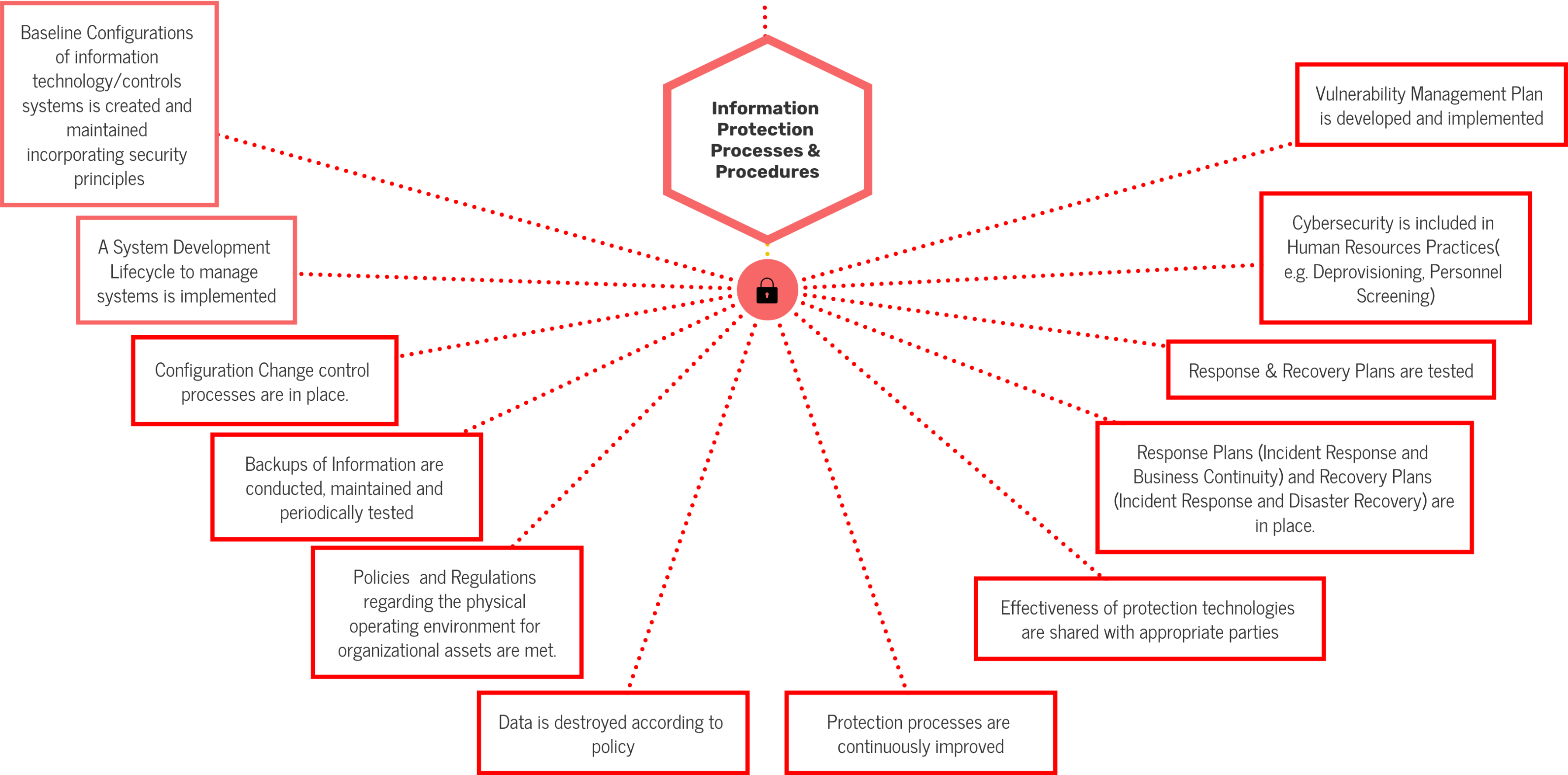
INFORMATION SECURITY FRAMEWORK - PROTECT - DATA SECURITY

Information Security Framework



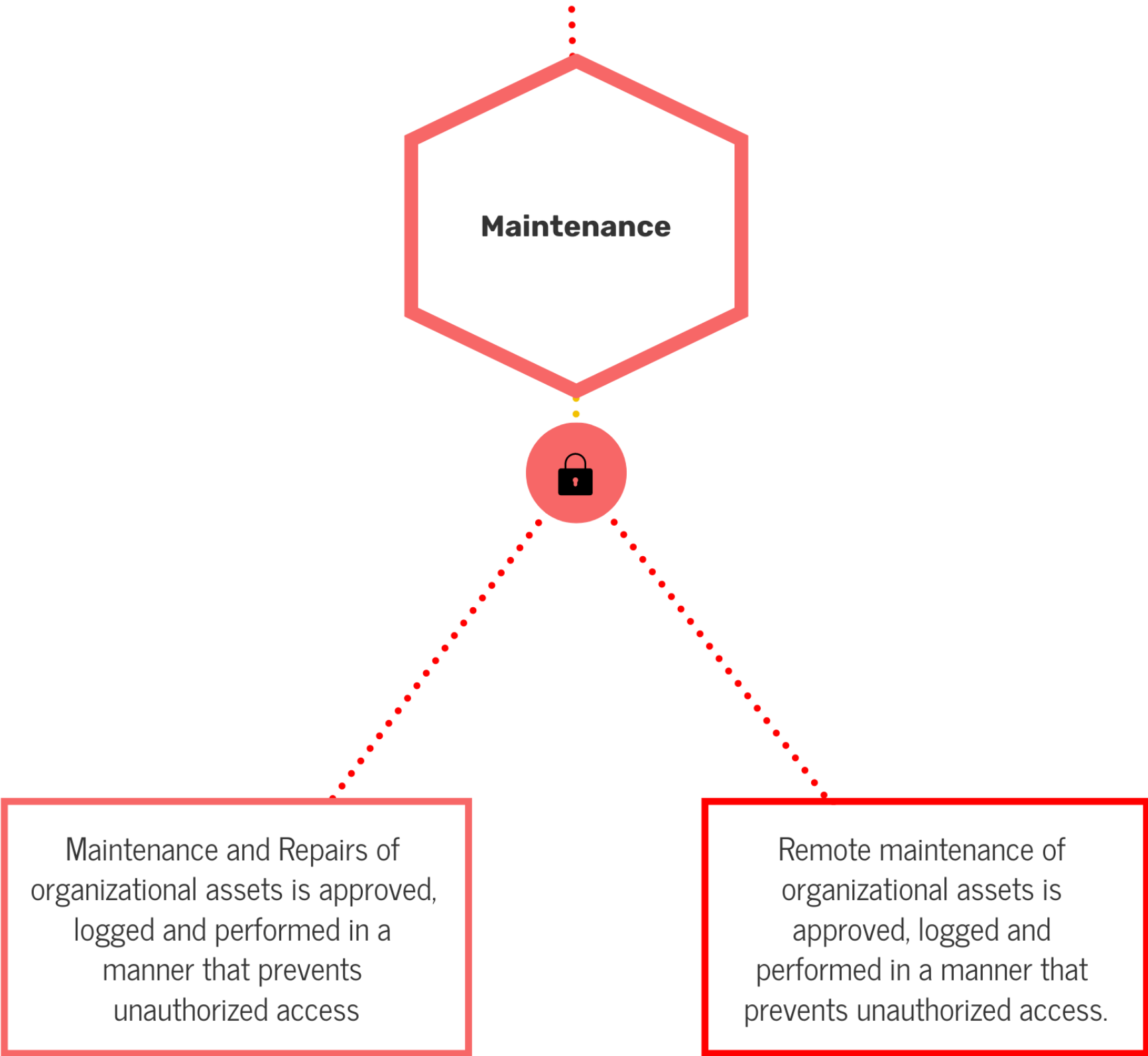
INFORMATION SECURITY FRAMEWORK - PROTECT - INFORMATION PROTECTION

Information Security Framework



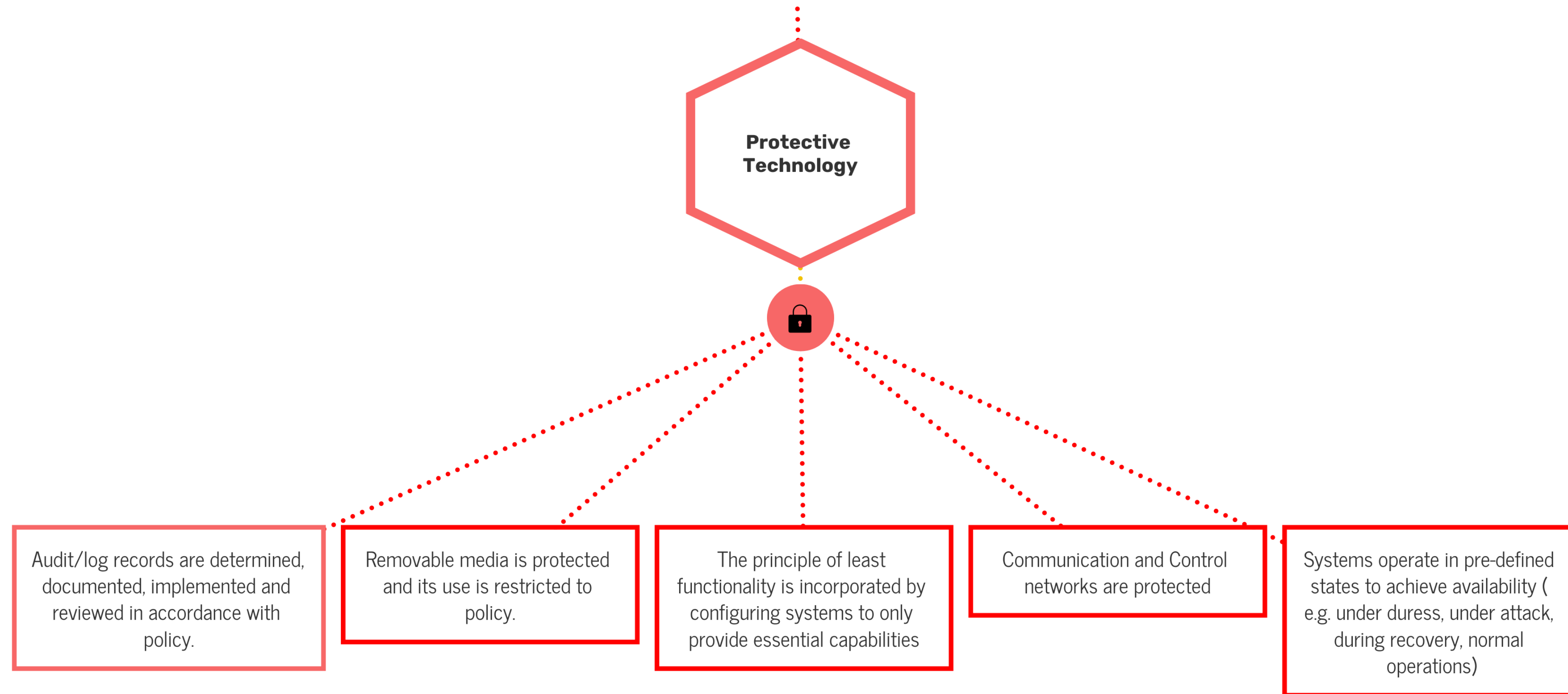
INFORMATION SECURITY FRAMEWORK - PROTECT - MAINTENANCE

Information Security Framework



INFORMATION SECURITY FRAMEWORK - PROTECT - PROTECTIVE TECHNOLOGIES

Information Security Framework





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- Rick Hillman, Virtual Safety Director
- Email: rick@ironwoodllc.net
- Phone: 609-960-2070



THANK YOU

All documentation shared will be posted on the SPELL Website, under Virtual Safety Program