

Cybersecurity for Senior Managers and Risk Officers in Housing Associations

A mini Webinar from CalQRisk



18th October 2022, presented by

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- Introduction – Who we are
- What is Cybersecurity
- What are the Risks
- Standards and Guidelines
- Elements of Cybersecurity
- The NIST Approach - Identify, Protect, Detect, Respond, Recover
- Risk Management and Senior Manager's responsibilities
- Reporting to and Assuring the Board

Introduction

- Experienced Risk & Compliance Professionals
- Members of IRM, ACOI, IoD, IoB, ACCA, ISACA
- Involved in the Development of Standards
- We supply a Governance, Risk & Compliance Software Solution
- called CalQRisk
- CalQRisk is used by 200+ regulated organisations
 - Financial Services, Solicitors, Local Authorities, Universities, Schools,
 - Housing Associations, Charities, Sports Organisations..

Published a White Paper on Risk Management and Resilience



"There are only two types of companies: Those that have been hacked, and those that will be."

FBI Director Robert Mueller

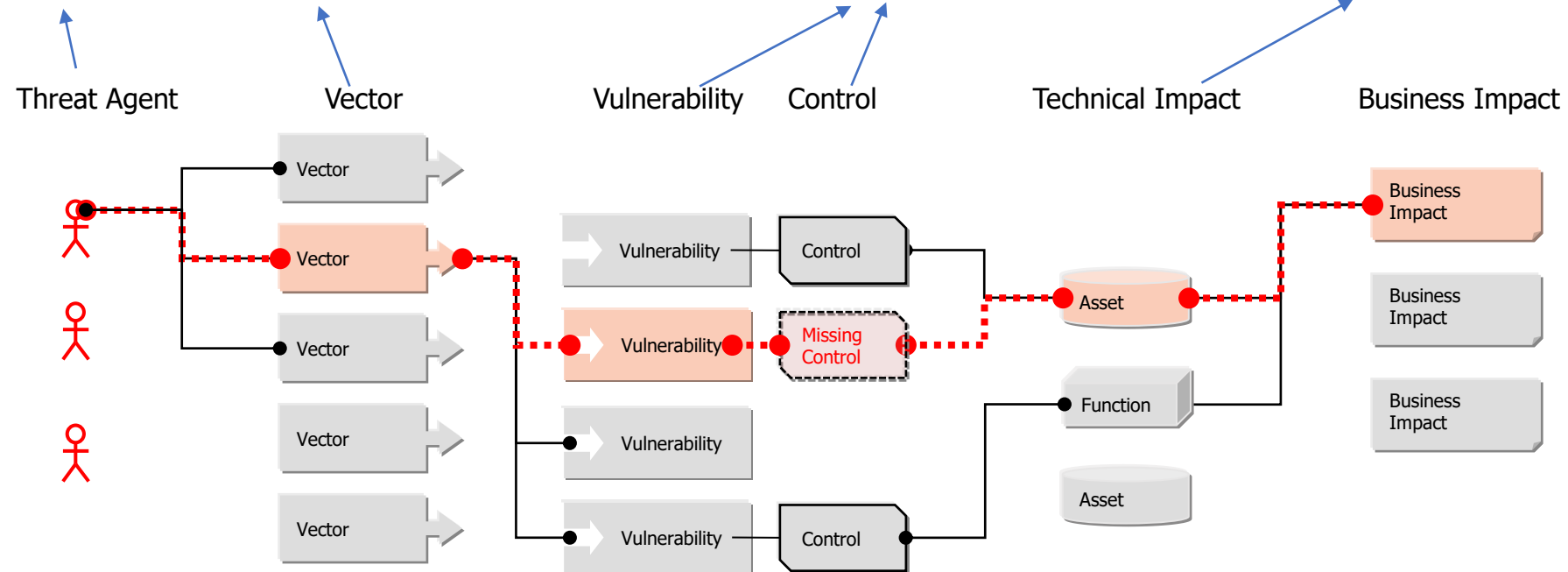
- **The UN reported a 600% increase in malicious emails during the pandemic**
- **Cybercrime will cost the world \$>10 trillion annually by 2025**

Stakeholder Expectations

- Cyber risks are understood and prioritised
- IT capability matches organisational ambitions
- Systems are secure
- Policies and procedures are appropriate
- Staff are trained on cybersecurity risk
- There is a plan for when things go wrong

What is Cybersecurity?

Criminal sends **Email** with link to malware that **evades detection** and allows **access to Server**



Source: Aspect Security

What are the Risks?

- Data Breach
- Loss of Assets
- Data Altered
- Extortion
- Spyware
- Identity Theft
- Distributed Denial of Service (DDoS),

Country's largest housing association hit by cyber attack

120 PM BY JACK SIMPSON

Data wiper deployed in cyber-attacks targeting Ukrainian systems

John Leyden 24 February 2022 at 15:25 UTC
Updated: 07 March 2022 at 10:15 UTC

Apache Pizza announce data breach associated with details of delivery customers

The Data Protection Commission has been notified of the breach and Apache Pizza said they will contact gardai.

Samsung Confirms Massive Galaxy Hack After 190GB Data Torrent Shared Via Telegram

Redcar and Cleveland Council: Four serious data breaches reported

Attack Techniques

- Email, links, attachments
- Social Engineering
- Social Networking
- Websites
- Wireless Hotspots
- USB Devices (Memory sticks)

Social Engineering

- Spoofing
- Phishing
- Spear Phishing
- Vishing
- Watering Hole
- Bogus Inspectors

john@Royal_Housing.net
john@Royal_Housing.net

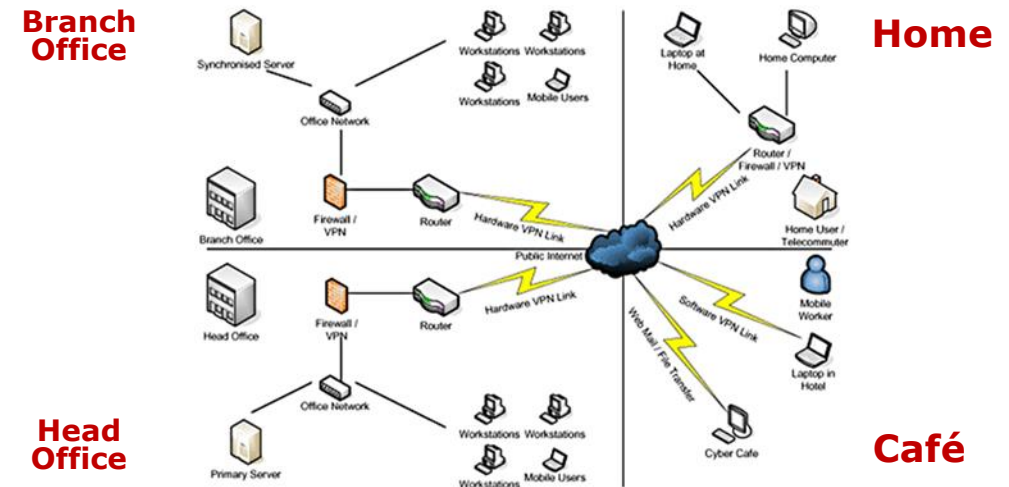
These two are NOT the same

john@Royal_Housing.net
john@Roya**I**_Housing.net

Vulnerabilities



- Unwitting Employees
- IT System Misconfiguration
- Unpatched Flaws in Op Systems
- Mobile Devices
- Storage of Data in the Cloud
- Service Providers / Partners



<https://haveibeenpwned.com/>

Mitigate the Risks

- Enforce your information security policy
 - Classify data according to sensitivity
 - Encrypt sensitive data in transit / at rest
 - Manage the use of personal devices / Prevent
 - Require strong passwords / changing of passwords / two-factor authentication
- Train employees to recognise suspicious activity
 - Departure from agreed protocol / instructions
- Conduct Due Diligence on partners you rely on
- Document your procedures and stick to them
- Monitor adherence to procedures

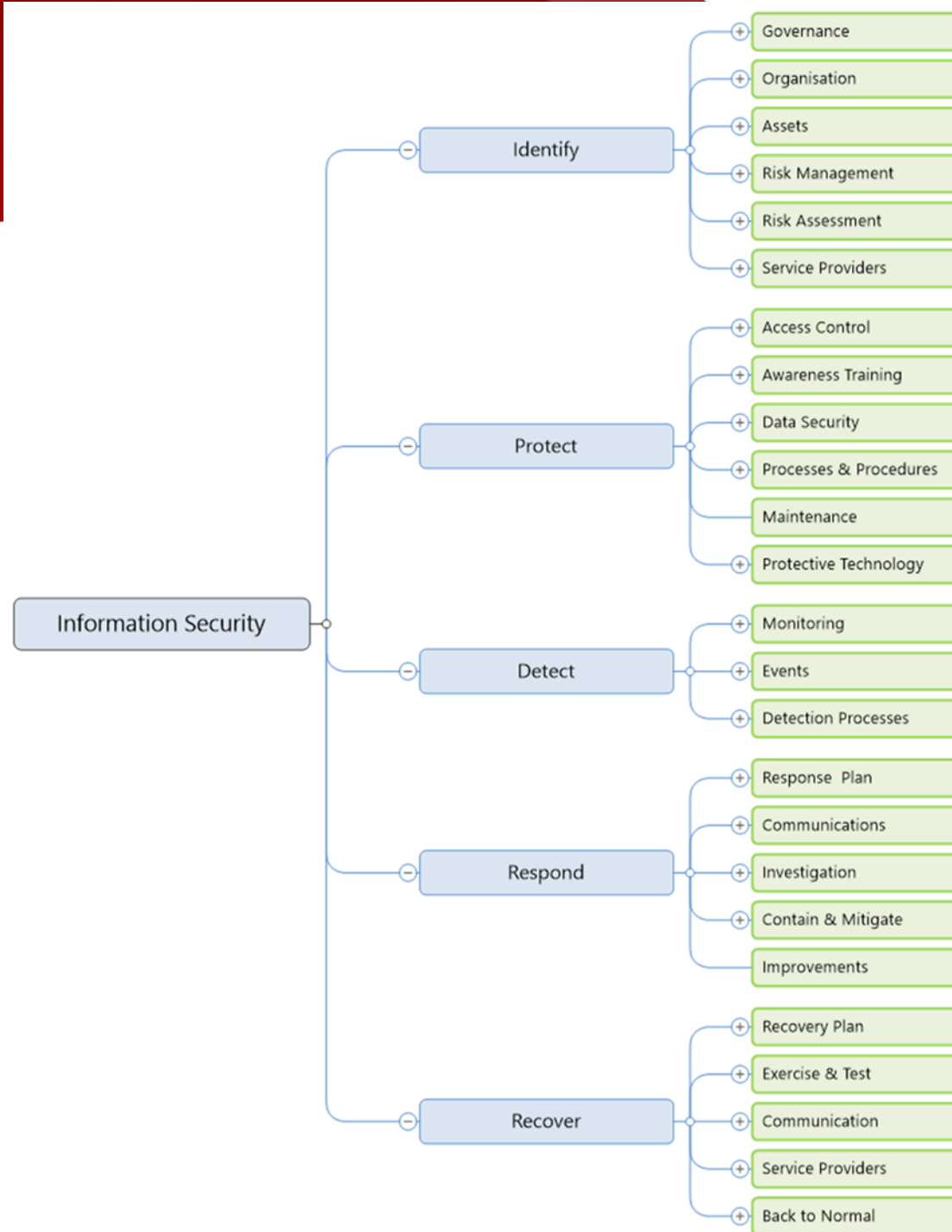
Standards and Guidelines

- NIST Cyber Security Framework
- ISO 27001
- CIS CSC (Critical Security Controls)
- COBIT
- Cyber questionnaire (PRA)

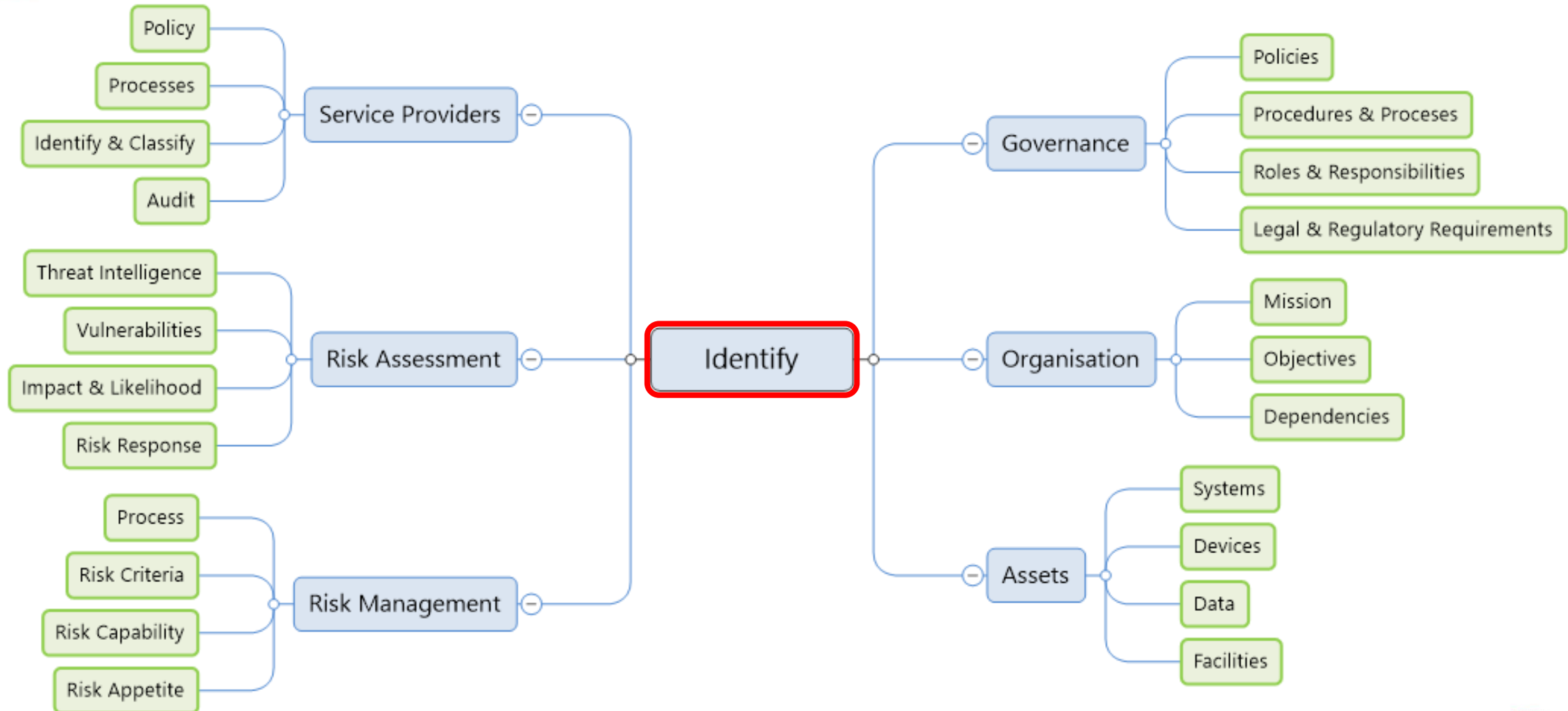
NIST Approach

The NIST Approach

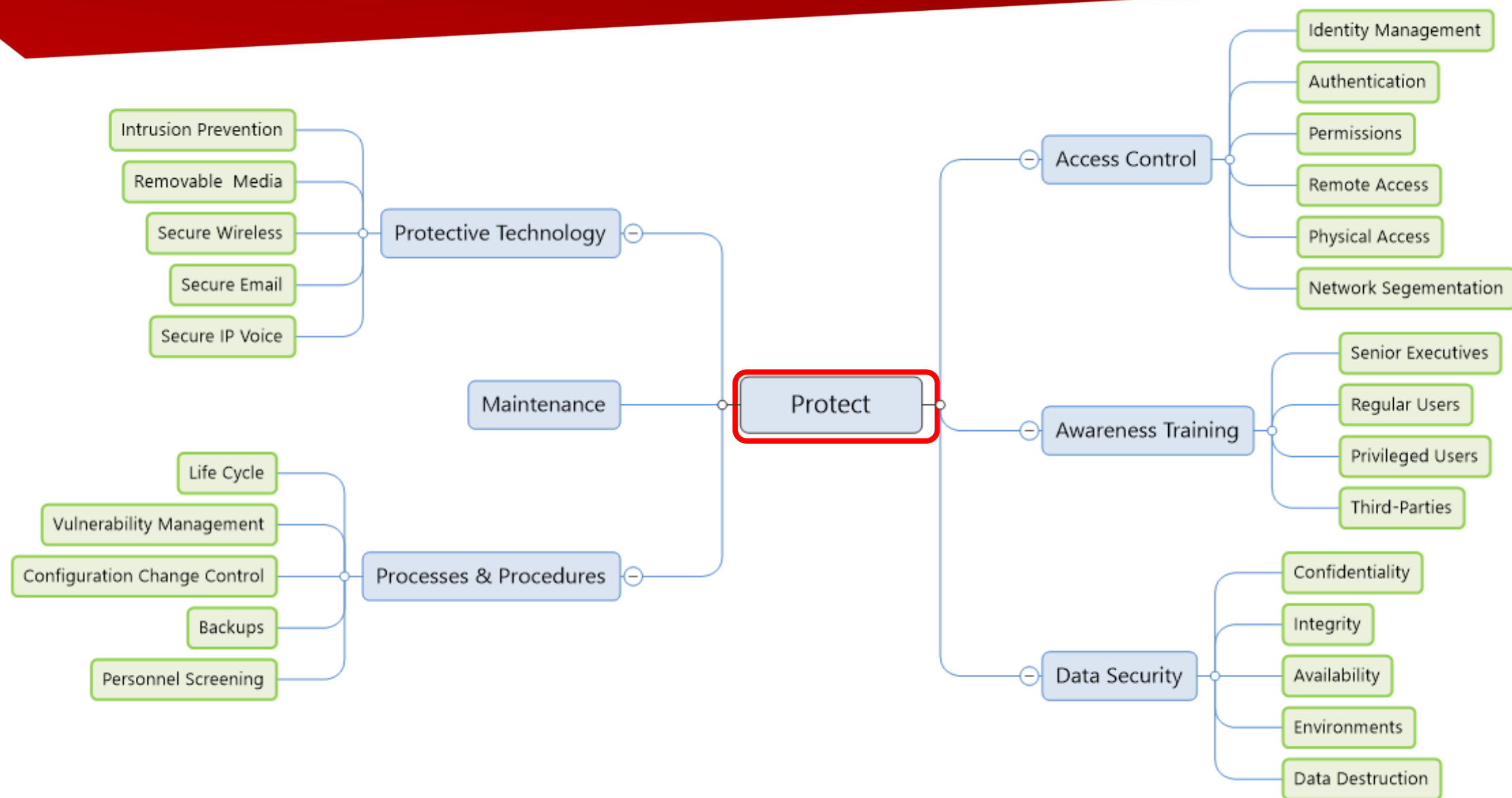
- Identify
- Protect
- Detect
- Respond
- Recover



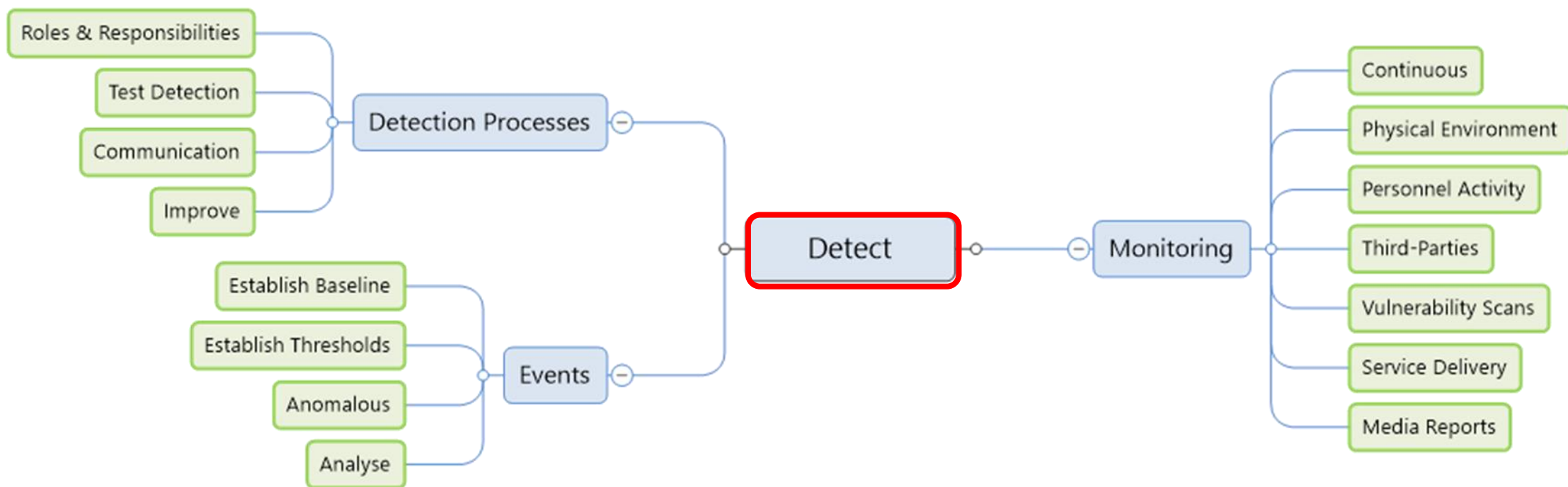
Identify



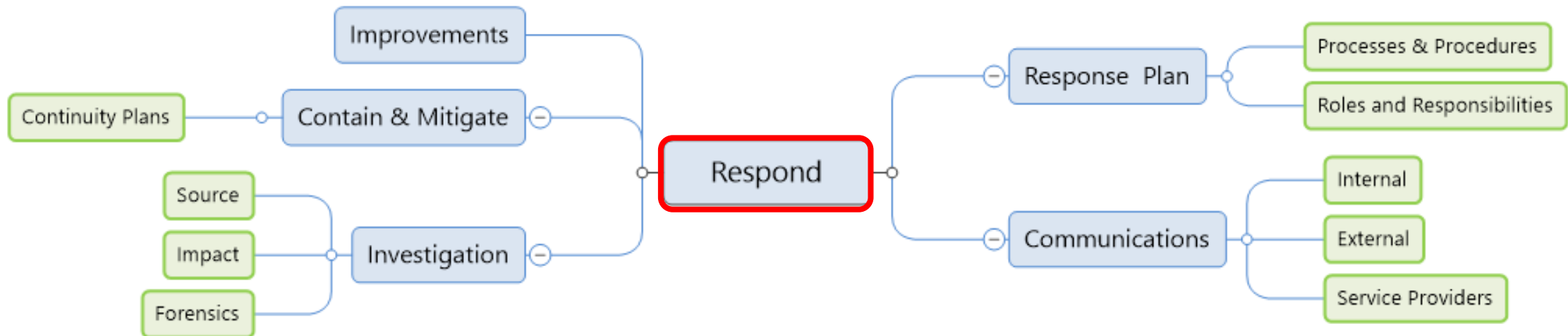
Protect



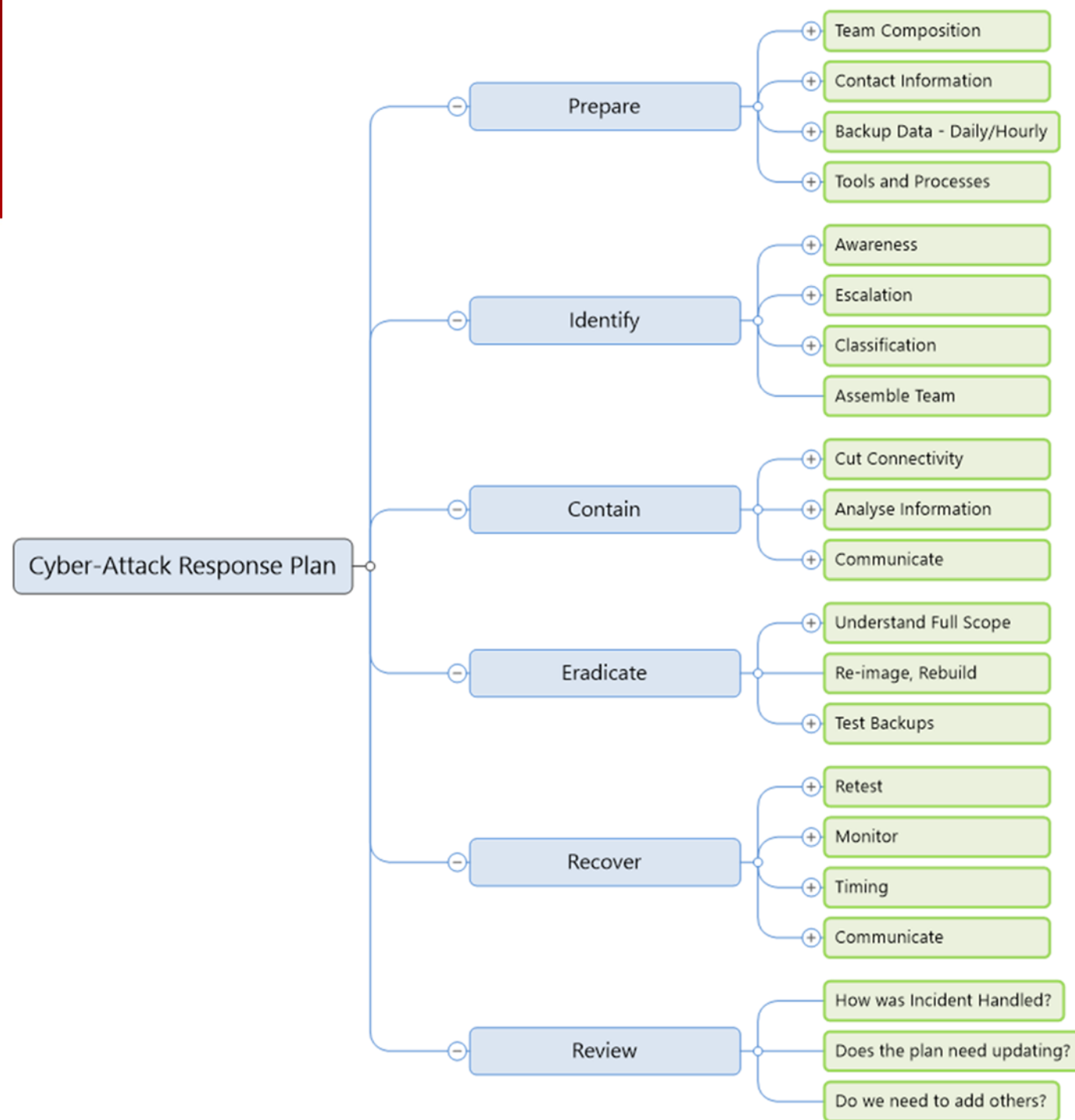
Detect



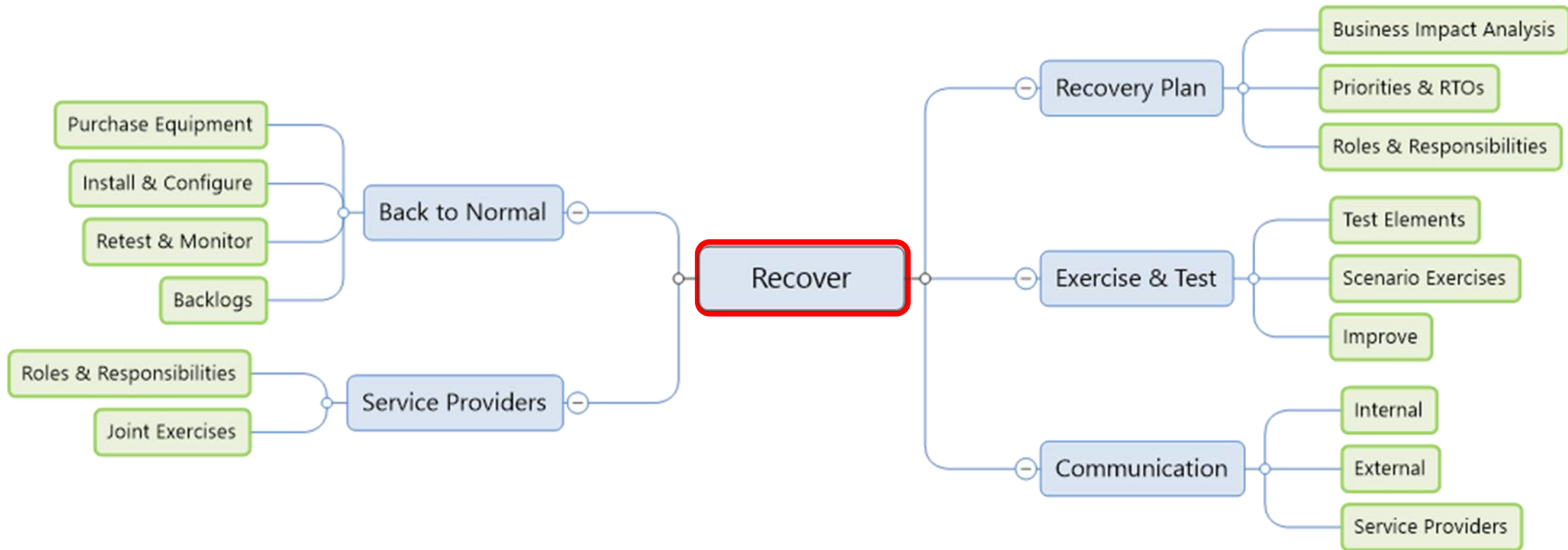
Respond



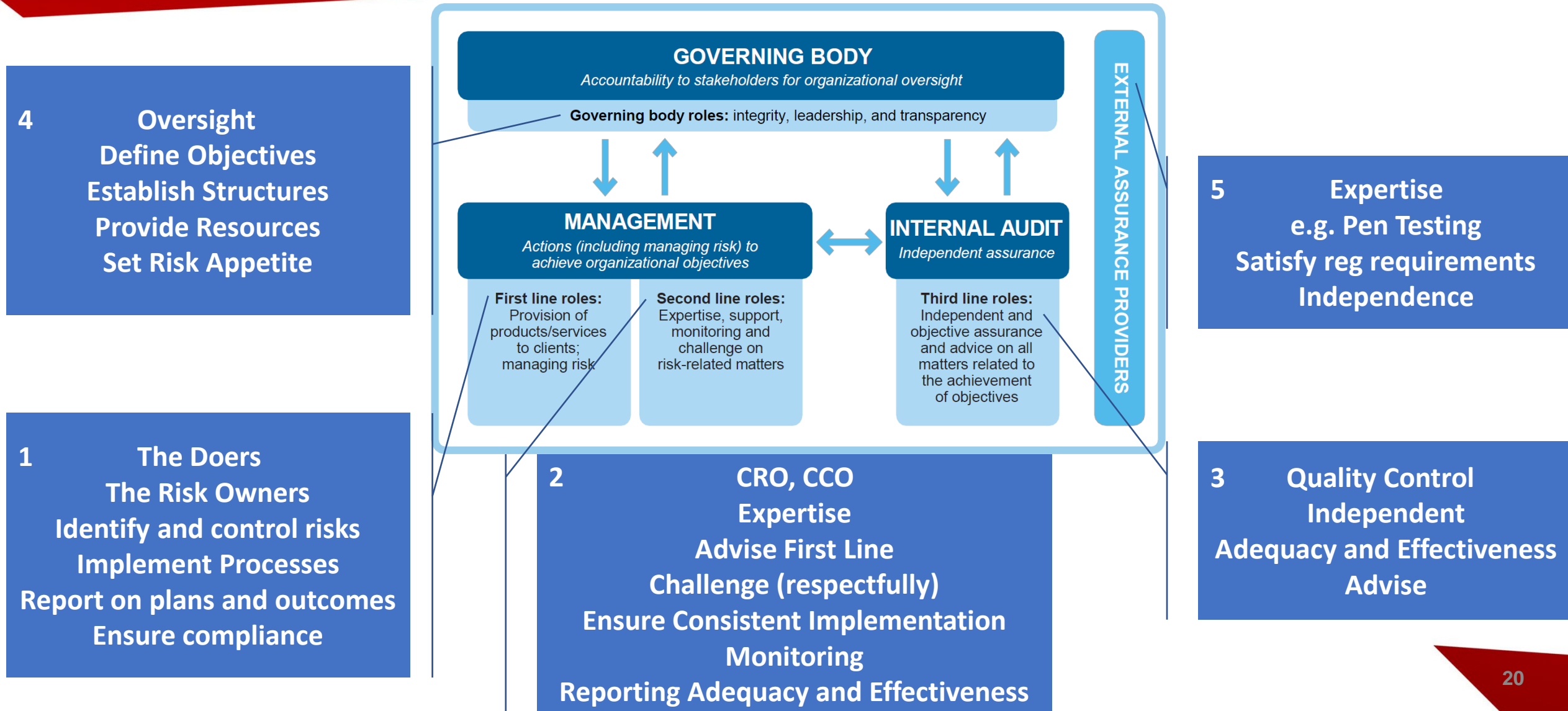
Response Plan



Recover



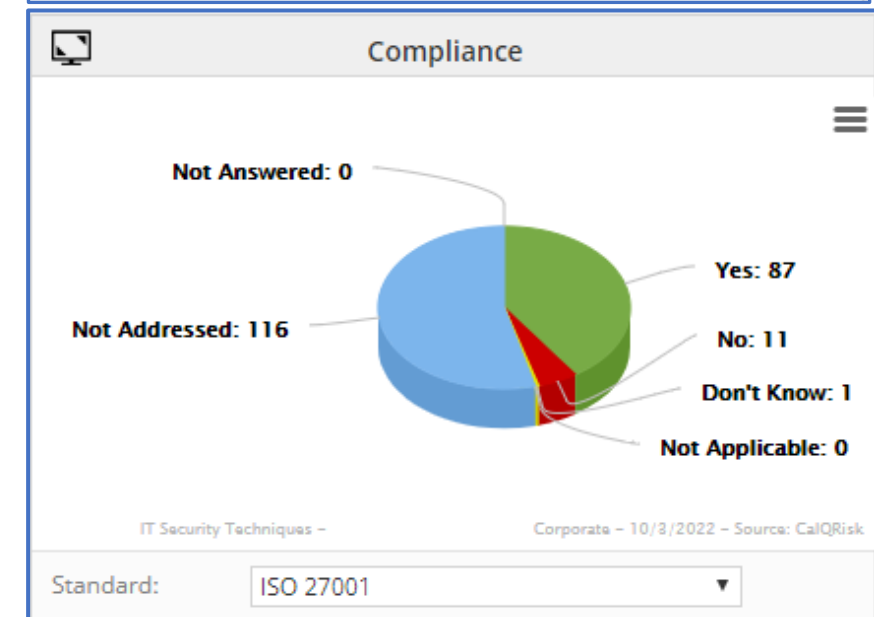
Responsibilities



Reporting – Assuring the Boards

- What is the overall risk profile?
 - What are the Top 10 risks?
- What is threatening the Objectives?
- Are existing controls working / effective?
- Have there been any near misses / incidents?
 - Errors & Omissions, system outages, accidents, policy breaches
- Where are the gaps?
 - Confirmation of the overall compliance position
 - What is being done to address the gaps?
- Have we tested / exercised our Response Plans?
- Key Risk Indicators

Top 10 Risks		
18.3	Failure to prevent unauthorised access to systems and information -	
16.8	Failure to manage the prevention of money laundering through the organisation -	
16	Inadequate AML Training - All Personnel	
16	Failure to execute the MLRO function appropriately -	
15.6	Poor recovery planning and execution post incident -	
15	Inadequate governance structures for AML / CFT / FS -	
14.8	Failure to ensure appropriate information security around Personal Data -	
14.6	Data Processing contract / legal agreement not appropriate -	
14	Overreliance on 3rd party suppliers -	
13.5	Ineffective Customer Due Diligence practices - front office	
Category	All	What Matters All
Objectives	All	Standards All



Thank You

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