CYBER & INFORMATION SECURITY

WHAT EXECUTIVES NEED TO KNOW AND ASK

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Information Security

The protection of information and information systems from unauthorized access, use, disclosure, disruption, modification, or destruction in order to provide **confidentiality, integrity, and availability.**

Current State of Cyber Security

- Pandemic accelerators
- Dark web considerations
- Bitcoin - They can get paid now
  - Exploit kits …help desk?
- Ransomware as a service
- Data breach privacy concerns
- IoT implications
- Operational continuity issues
- Legal and branding concerns

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Middle Market & Information Security

- Increased frequency of attacks
- Limited internal resources
- Increased regulatory pressures
- Confusion among management regarding roles, responsibilities and priorities
  - Assuming IT is addressing it all!
- Lots of noise/offering in the IT vendor community
- Need for a unified methodology and approach

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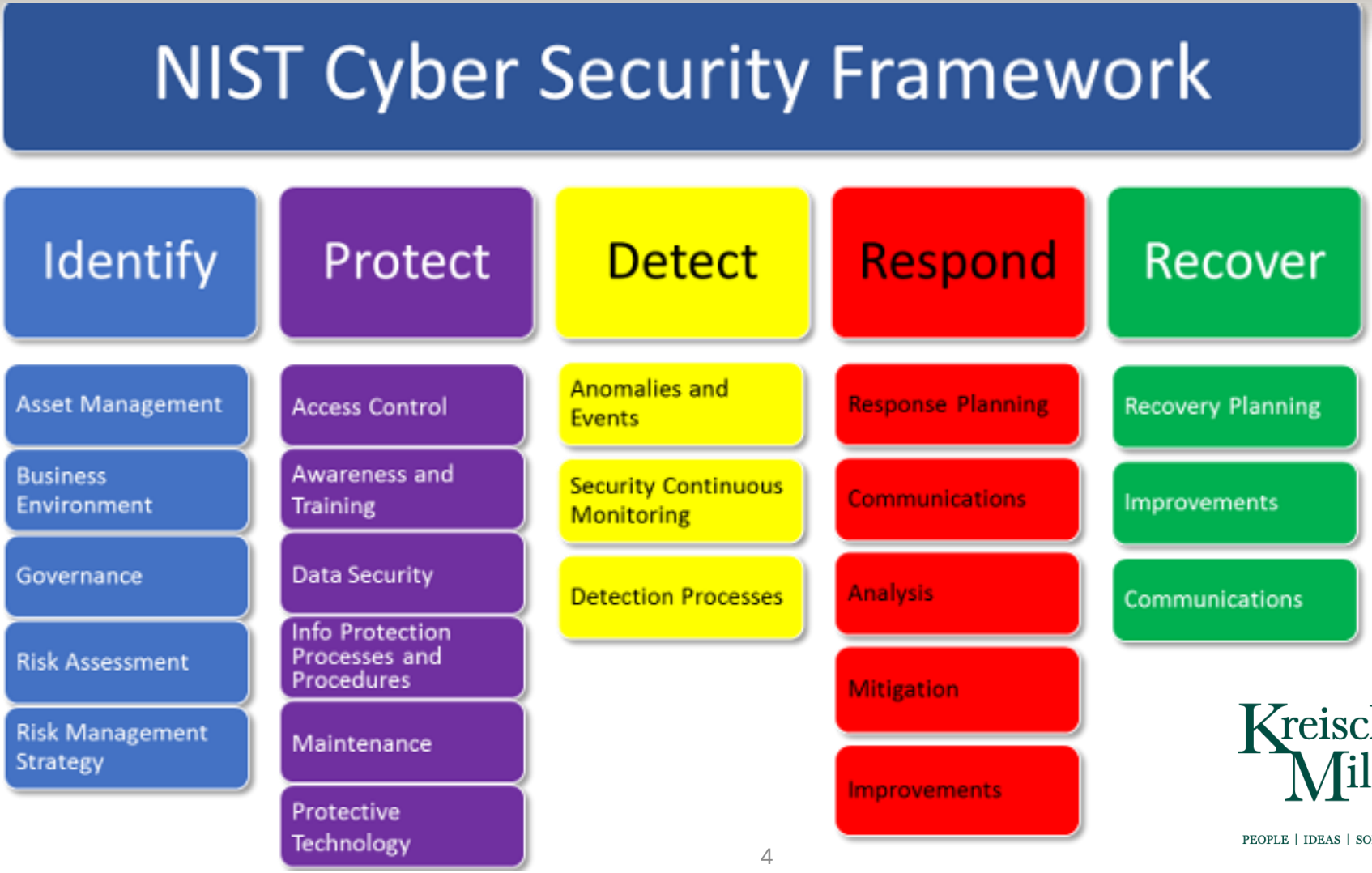
Leveraging Frameworks



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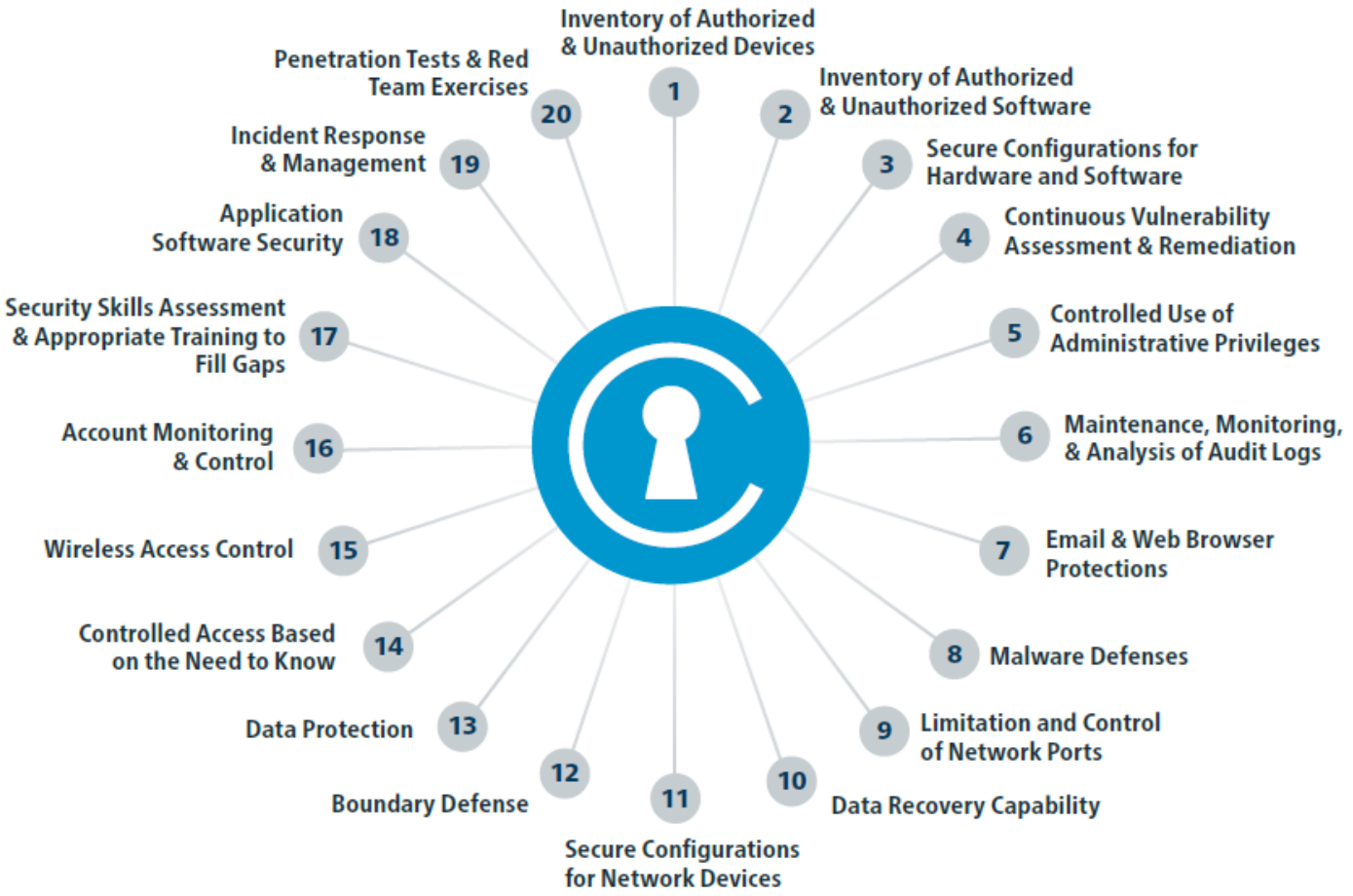
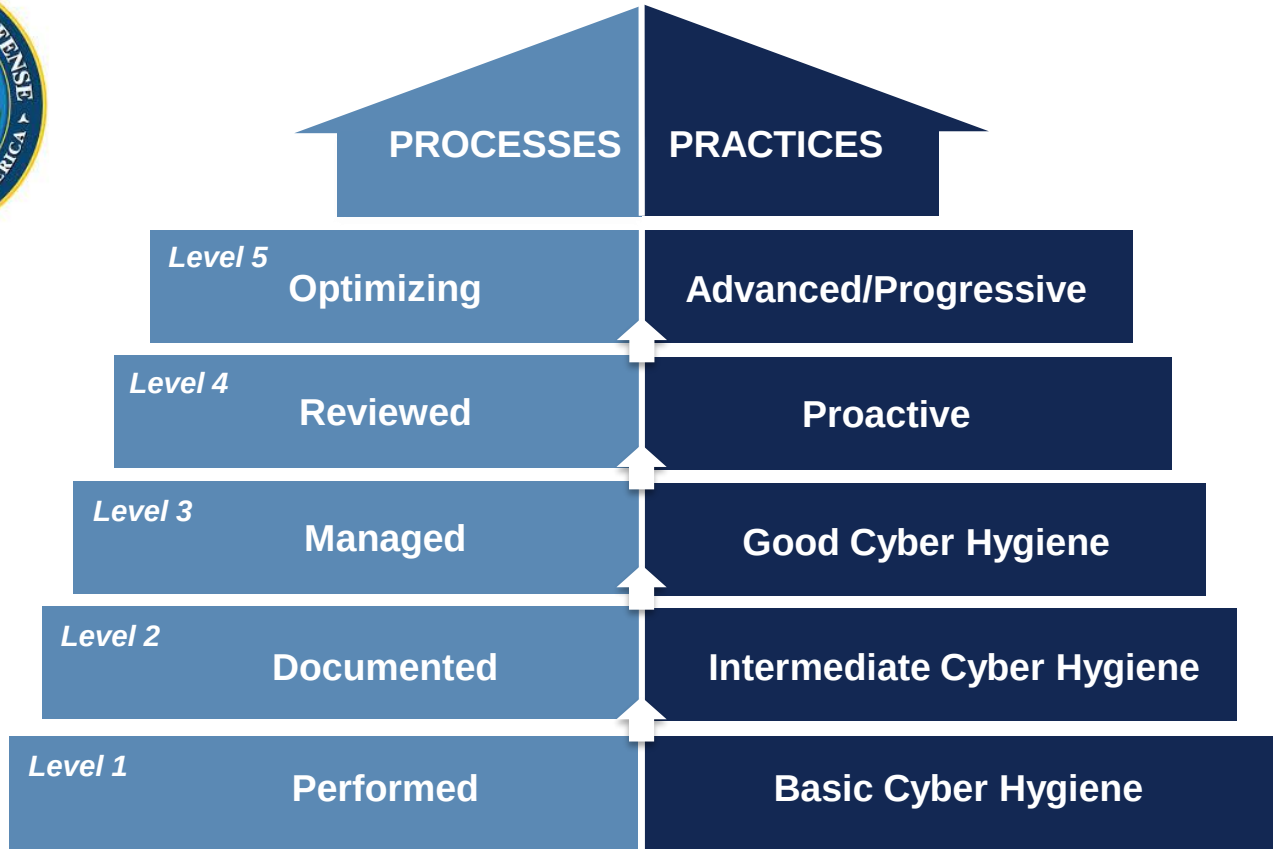
CIS Top 20 for SMEs



Governmental Contracting DFARS/CMMC



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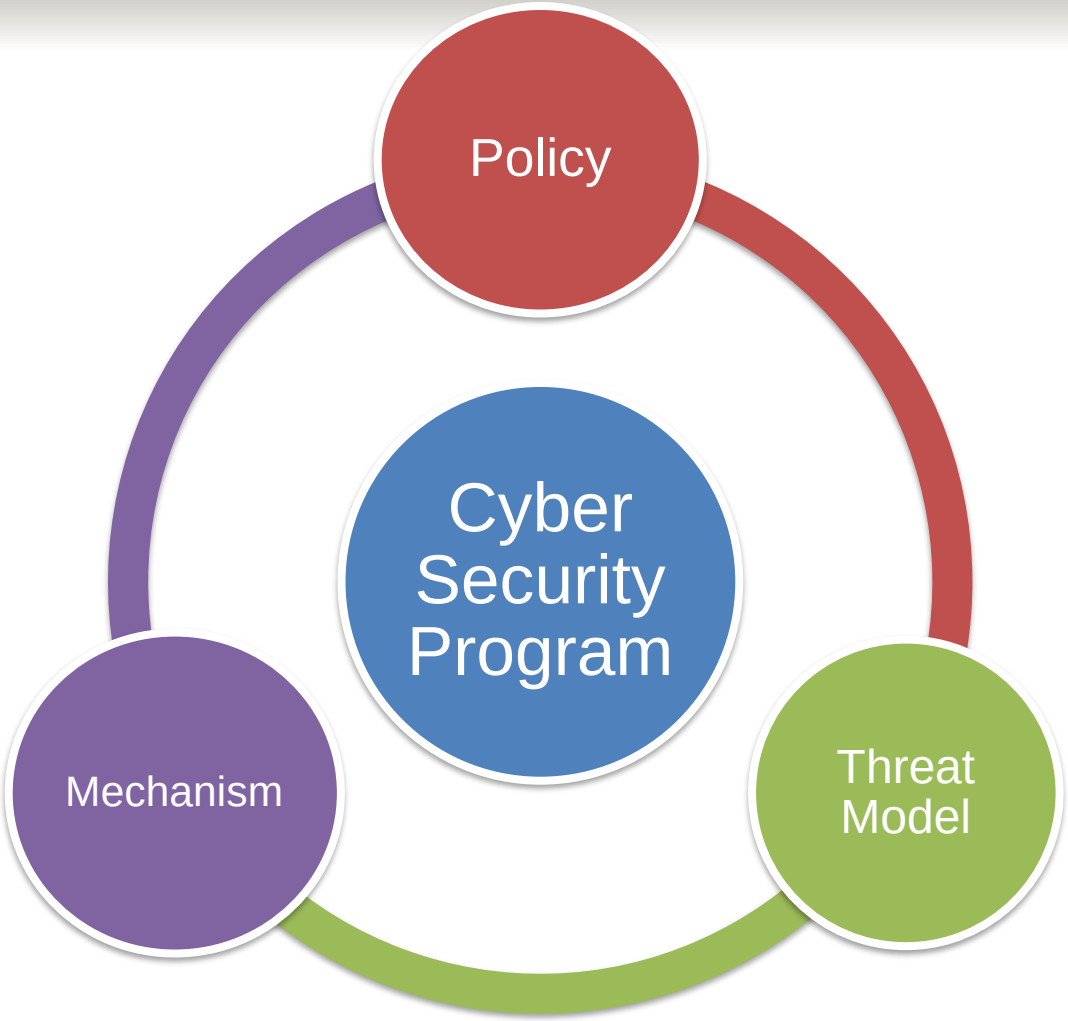
Cyber Security Program Triad



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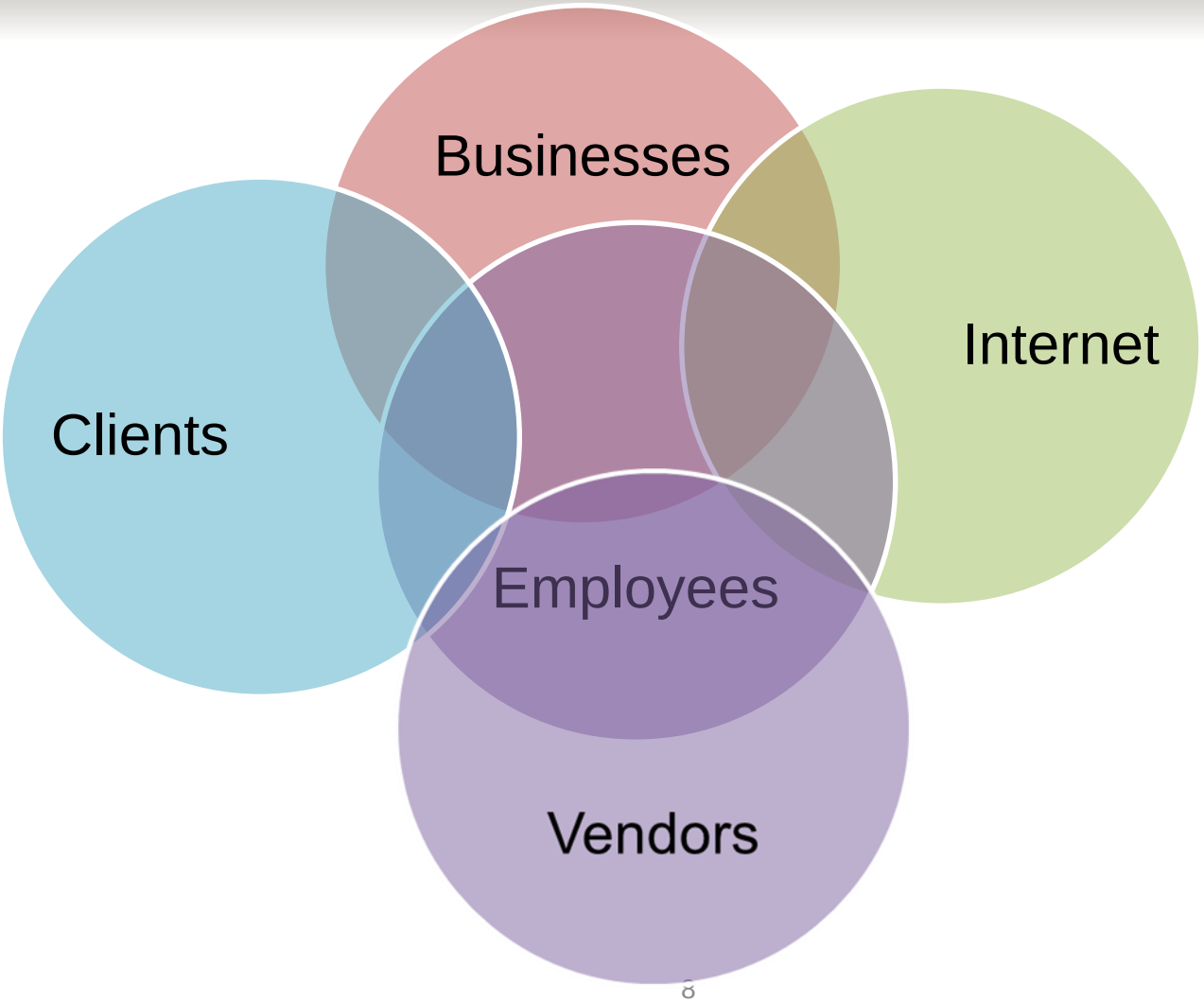
Know Your Web of Trust



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10 QUESTIONS TO ASK

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Do we have a cyber program?

- Is it an active program?
  - Cyber versus Privacy
- Is it well planned/budgeted?
- Is it based on a methodology?
  - NIST
  - CIS
  - DFARS/CMMC
  - ISO
  - GDPR/HIPAA

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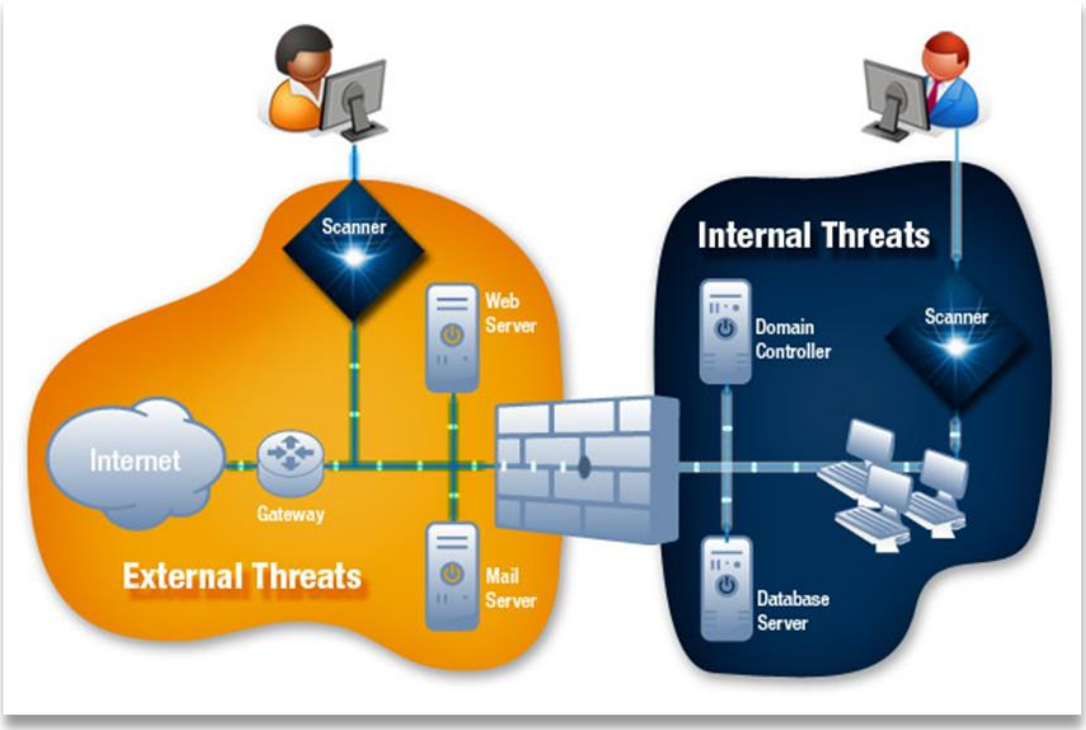
Do we know our vulnerabilities?

- How often do we conduct a vulnerability scan?
  - New vulnerabilities are discovered daily
  - Internal vulnerability scans occur from within the network
  - External vulnerability scans simulate the effect of Internet users attempting to access a network



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Are we monitoring threats?

- Detecting potential intrusions?
- Review of user activities?
- Staying on top of latest threats out there?

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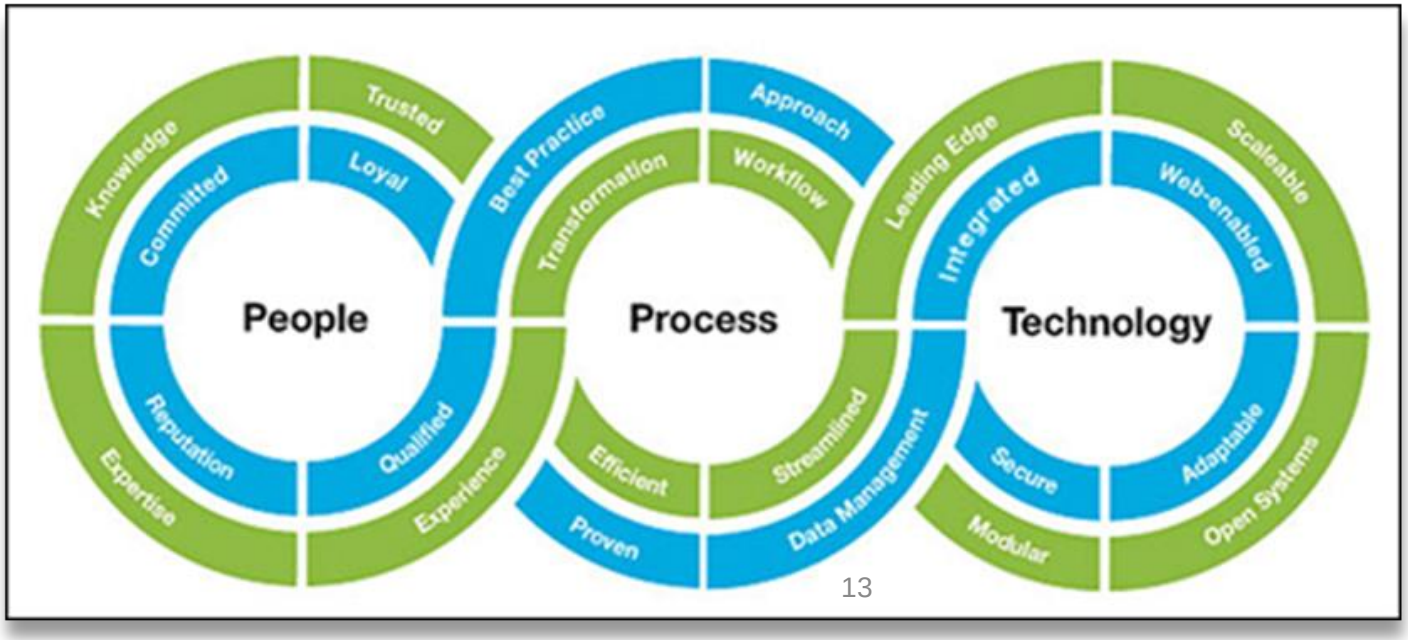
Do we have updated policies?

- Employee on boarding, acceptable use, termination?
- Customer data handling and privacy?
- IP and internal data confidentiality, access and protection?
- Vendor/contractor proper data handling and confidentiality?
- IT department/provider cyber policies & procedures?



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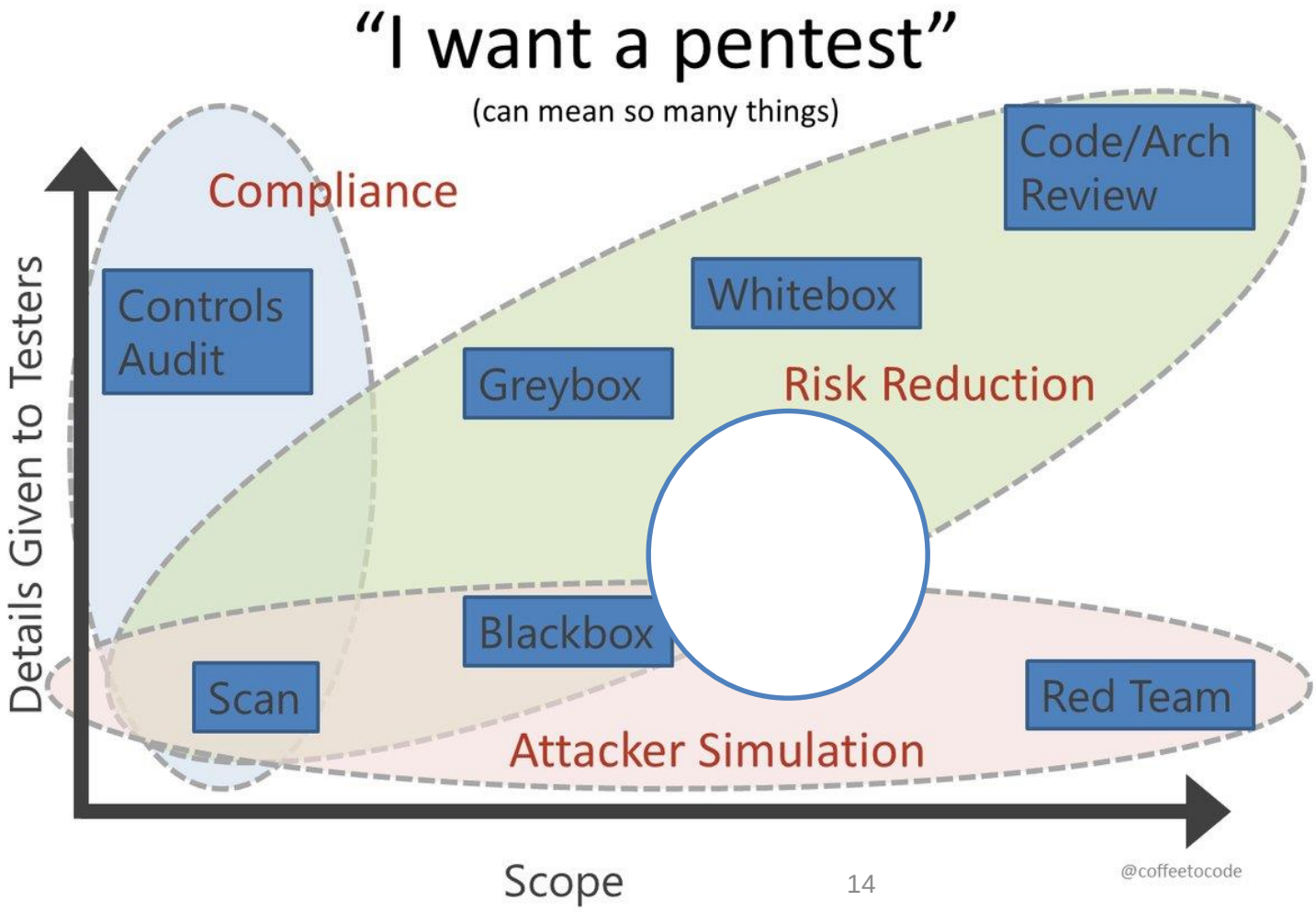
Have we paid someone to break in?



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Do we have a cyber training program?

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Are we validating user knowledge?

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Users only access what they need?

- Principle of least privilege
  - a user, or a program, depending on the subject) must be able to access only the information and resources that are necessary for its legitimate purpose
- Review access levels and have proper change control procedures in place
- Apply this principle to all employees and third parties

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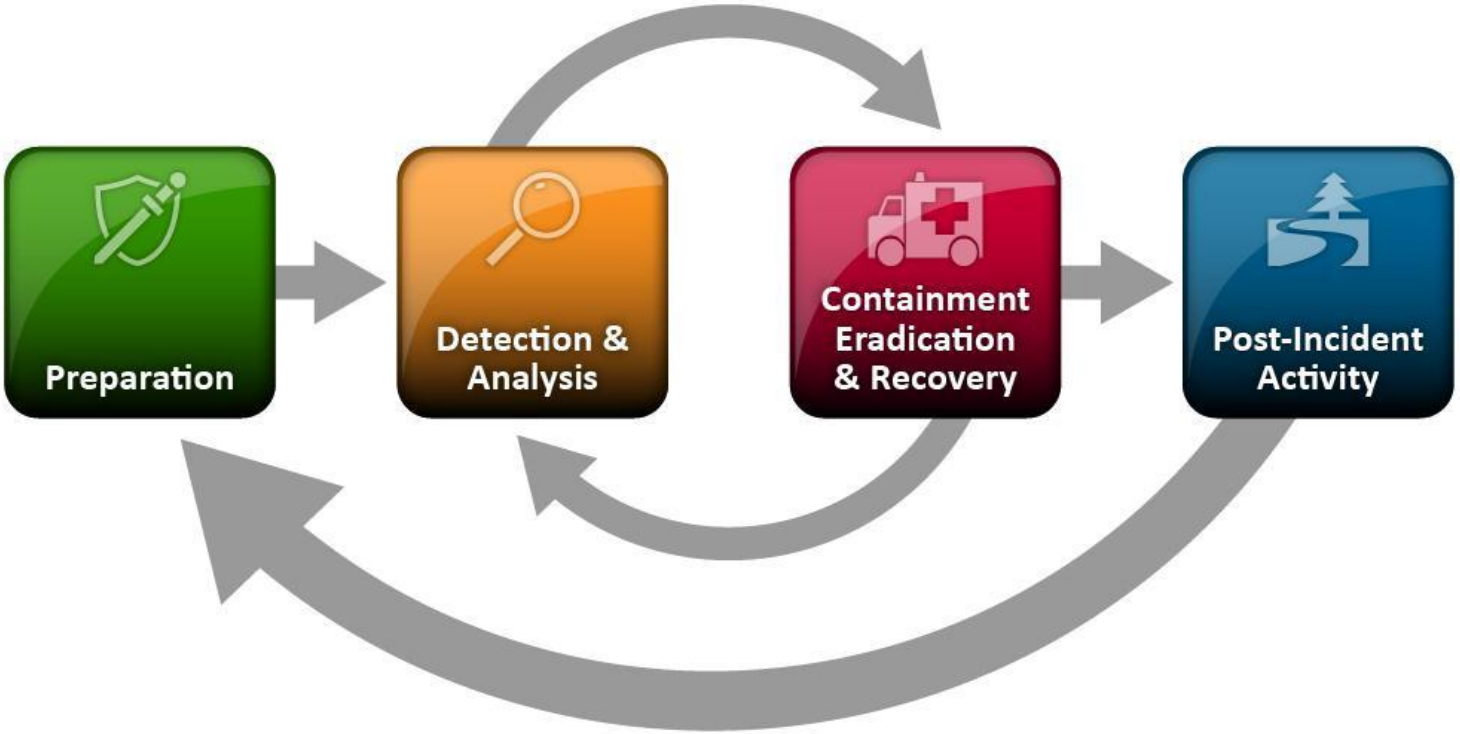
Do we have an incident response plan?



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Do we have a recovery plan?

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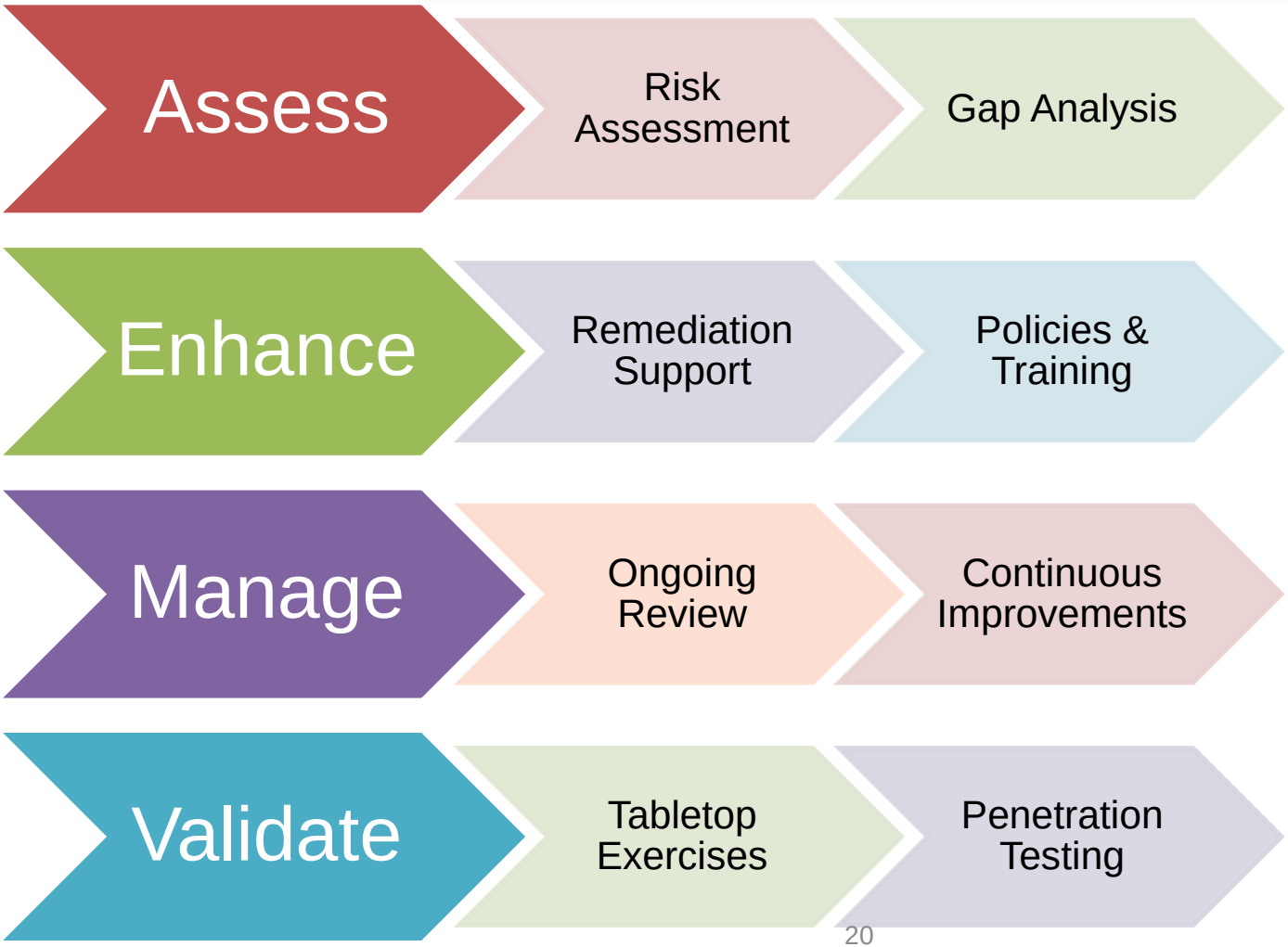
KM 4 Phases of Information Security



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Concluding Comments

- Executives are ultimately responsible for their organizations cyber security and information security readiness.
- Executives and Board members need to stay highly engaged in the cyber and information security readiness efforts to lead their organization's culture towards a security aware and empowered one.
- ***Increasing cyber hygiene and information privacy is not a costly endeavor. It could be accomplished if addressed in a systematic program fashion to best protect ongoing digital transformation efforts and assets.***

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THANK YOU FOR ATTENDING!

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