

#ITCon22

Security: Rolling with the Punches

August 2022



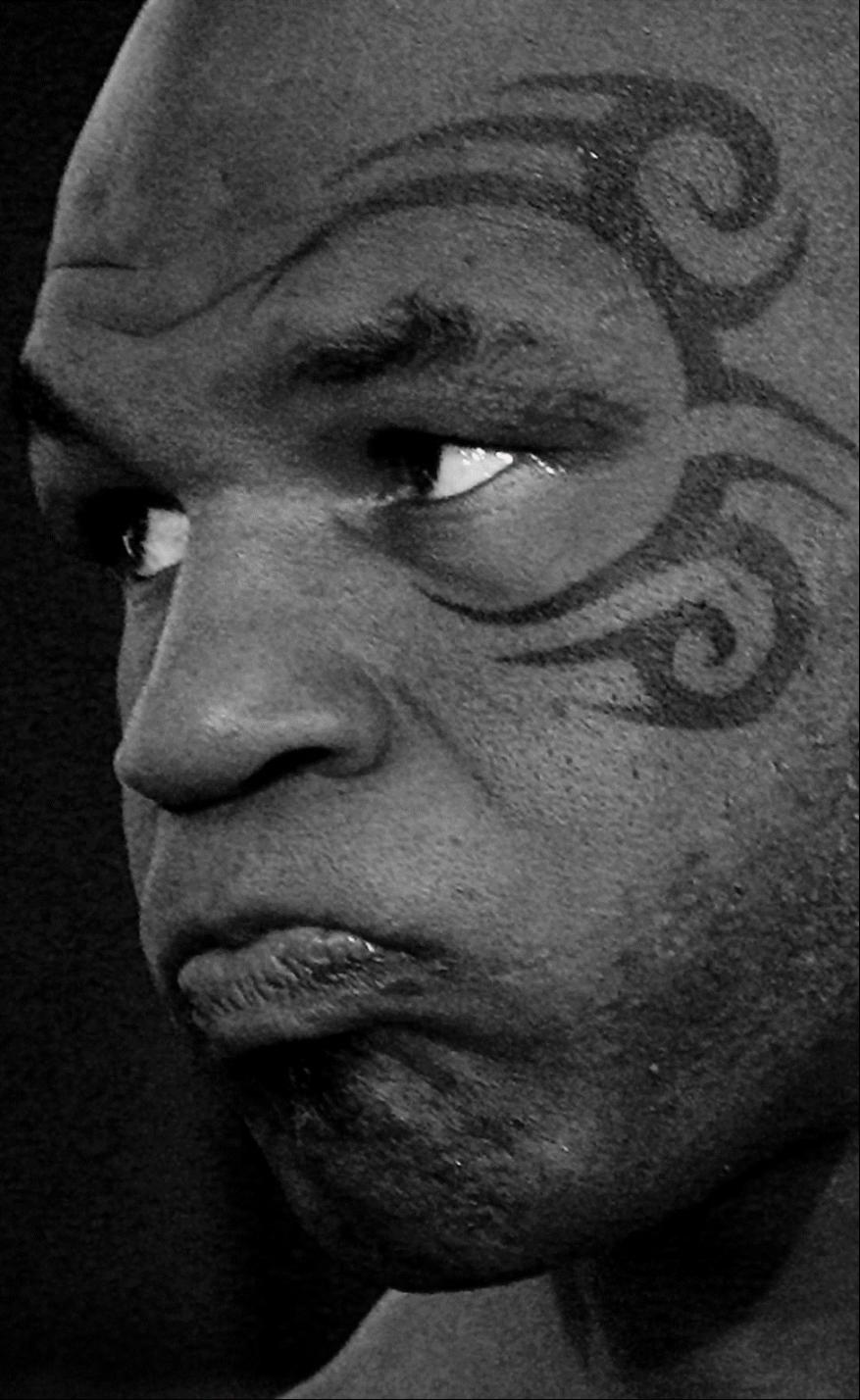
I shall respect Rex
I shall never misuse Rex Kwon Do
I shall be a champion of freedom and justice

Today's Presenter:

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“Know thy enemy”

If you know the enemy and know yourself, you need not fear the result of a hundred battles.





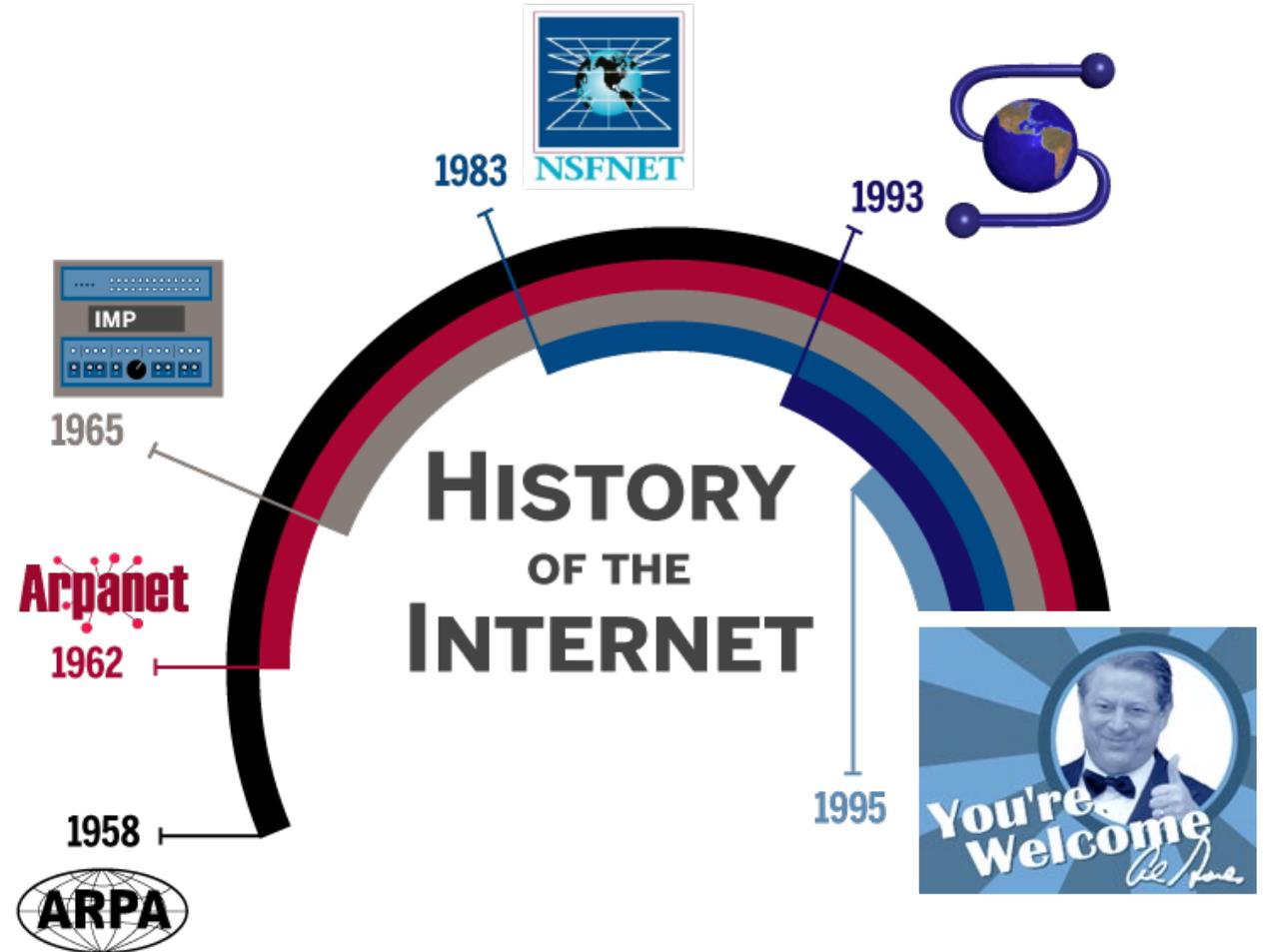
2022 - what we know:

Hackers: stronger than ever
Reasons: ever expanding
Business Perception: Security = IT
Problem: resources (supply) < demand
People: have day jobs unless security is primary
Incidents: not if, but when
Cost of a Breach: rising (dramatically)
Clients: expect security
Customer Perception: you are guilty until proven otherwise



How did we get “here”?

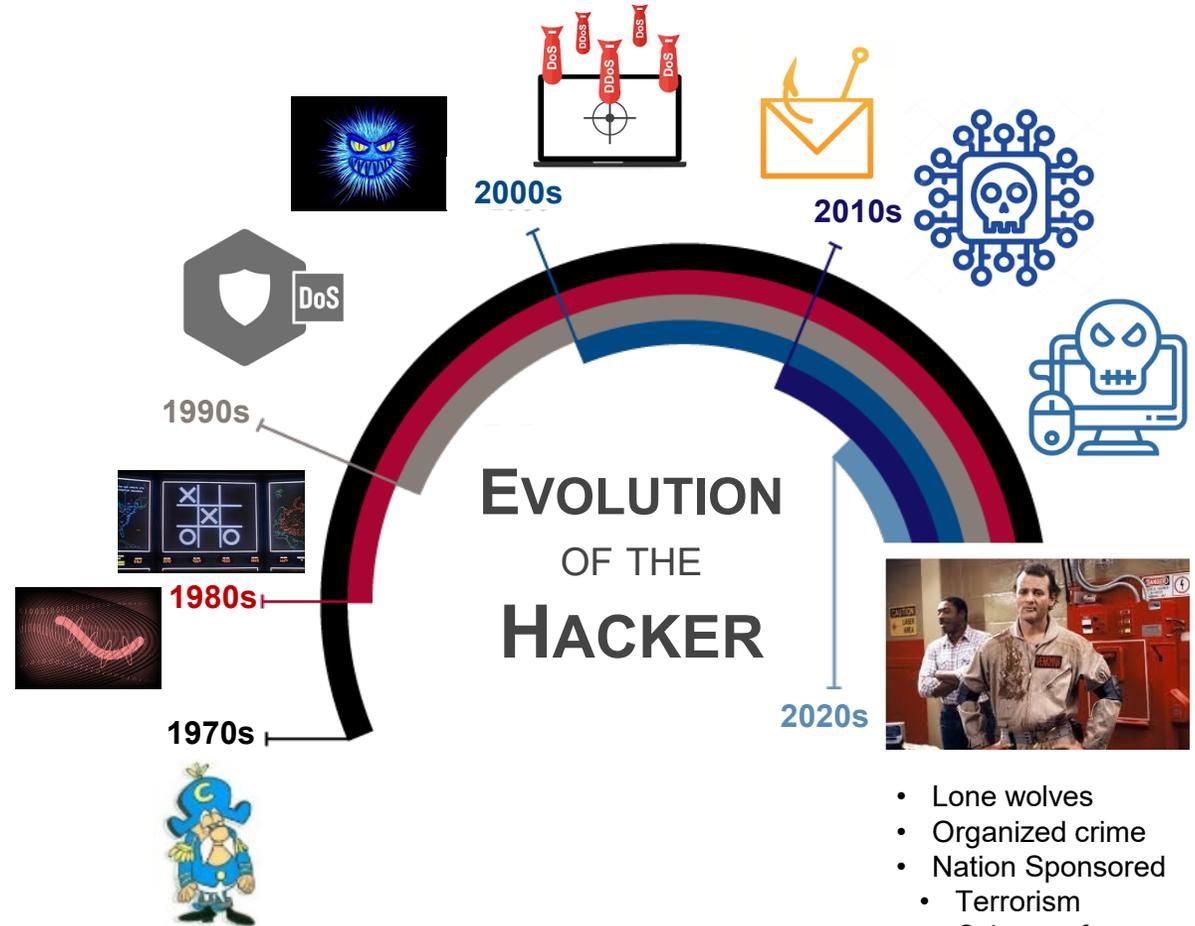
- The Internet was never designed with security in mind!
- Today, there are 22 billion connected devices
- By 2025 data from connected devices will go from 4 zettabytes (ZB) to 175 ZB





How did they get “here”?

- Started with a toy in a cereal box!
- Seemed more a nuisance, but hey – we’re not a target
- “Cats and Dogs, living together... Mass hysteria!”





What is our current “reality”?

- Chances of getting struck by lightning: 1 in 1,000,000
- Chances of dating a millionaire: 1 in 250
- Chances of experiencing a data breach: 1 in 4



Depending on your source:

- The average time to intrusion discovery is upwards of 250 days
- The average cost of a data breach \$800,000 – several million
- Spent another \$900,000 – several million to restore normal business in the wake of successful attacks



Most common delivery method

- Captain Obvious

“Expect phishing attacks to continue to rise”



Three Most Likely Attack Strains

Ransomware

software designed to deny access to a computer system or data until a ransom is paid.

Malware

Software that is intended to damage, disable, or provide remote control over computer systems

Password Attacks

Easily guessed, cracked, or given away



Did you see this one coming?

I Spoke with my IT Guy, he told me:
“don't worry, we're safe!”

Did you know: Most of the vulnerabilities exploited throughout 2021 continued to be ones known by IT professionals at the time of the incident?

Let's "understand the ring"

What are you protecting?

Where are you protecting it?

How are you protecting it?



Let's define "security"

- What is your organizations understanding of security?
 - Information Technology
 - Marketing, Sales, Client/Customer Service
 - Legal, Contracts, Vendor Management, Compliance
 - Physical Security, Worksite Security, Worksite Safety, Operations
 - Accounting, Finance.... Shall I go on?



Security maturity

- What is the current maturity level of security within your organization?
 - Does the organization have an overall Security Strategy?
 - Is the responsibility for security a secondary function of a group(s)?
 - Does Security have its own “run budget”? What about “new asks”?
 - Do you have the programs necessary to stay ahead of security?
 - Do you have the tools necessary to make security visible?
 - What is your culture? Are your leadership and people buying into it?

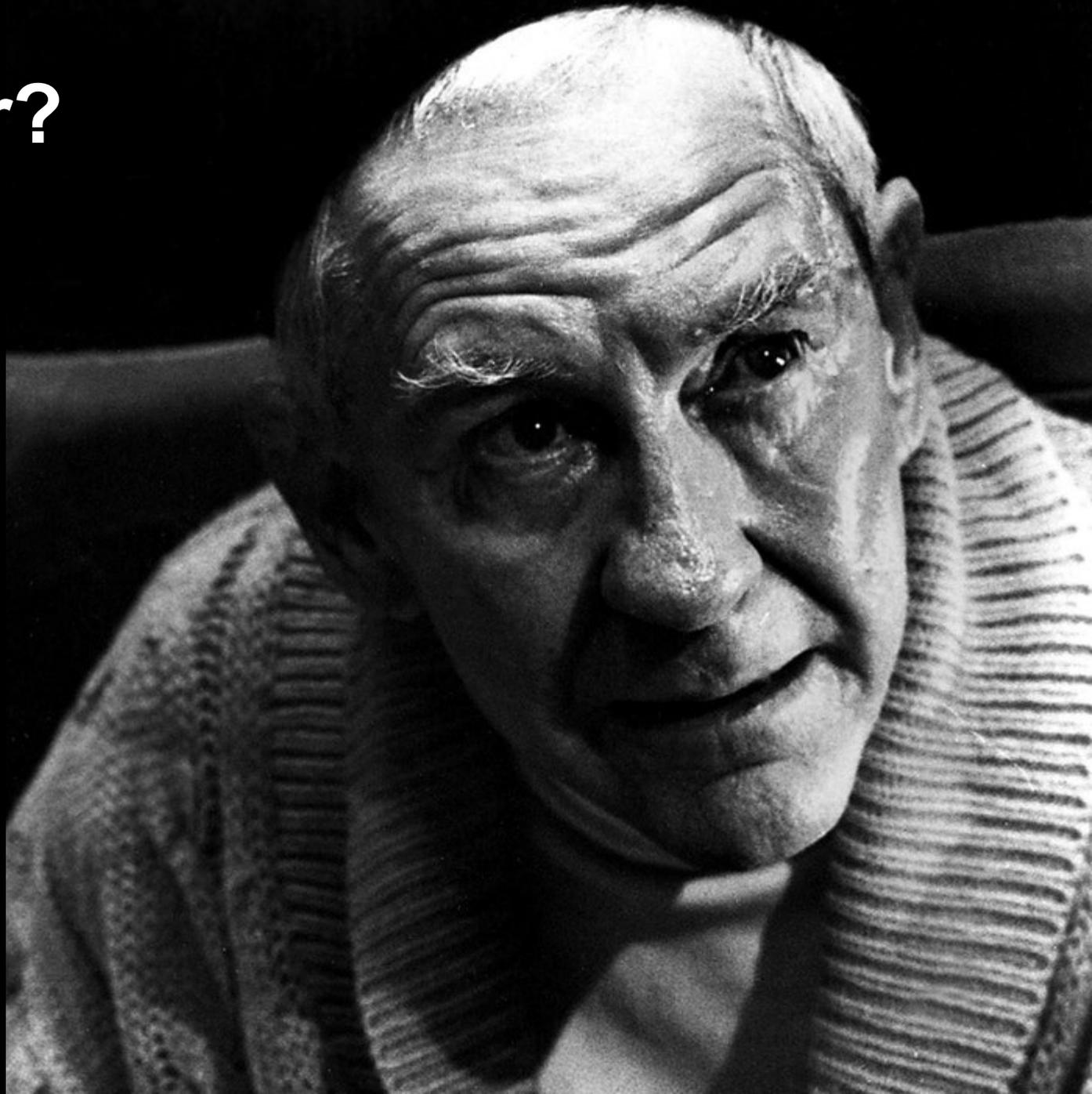


A complete view

- Do you know what you are protecting?
 - Do you know where everything is?
 - Do you have all the tools you need to protect it?
 - Are people incentivized to protect it?
 - Do you understand the risks?
 - Do you monitor risk?
 - Do you adjust as risk changes?

Who's in your corner?

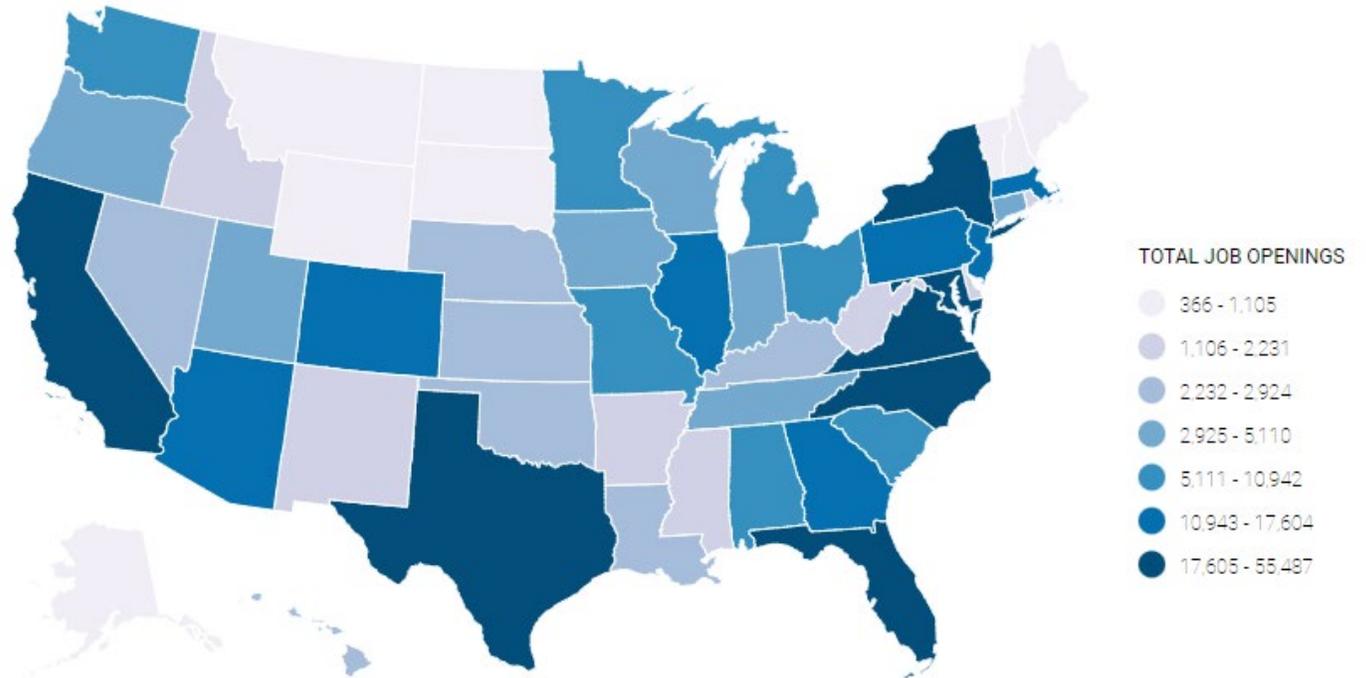
“The world ain't all sunshine and rainbows. It's a very mean and nasty place and I don't care how tough you are it will beat you to your knees and keep you there permanently if you let it.”





Where is the help?

- 464,420 open cybersecurity positions currently unfilled in the United States alone
- 2.93 million open cybersecurity positions currently unfilled world-wide
- Biggest complaints from those leaving Cybersecurity: limited budgets, limited training, always on the clock



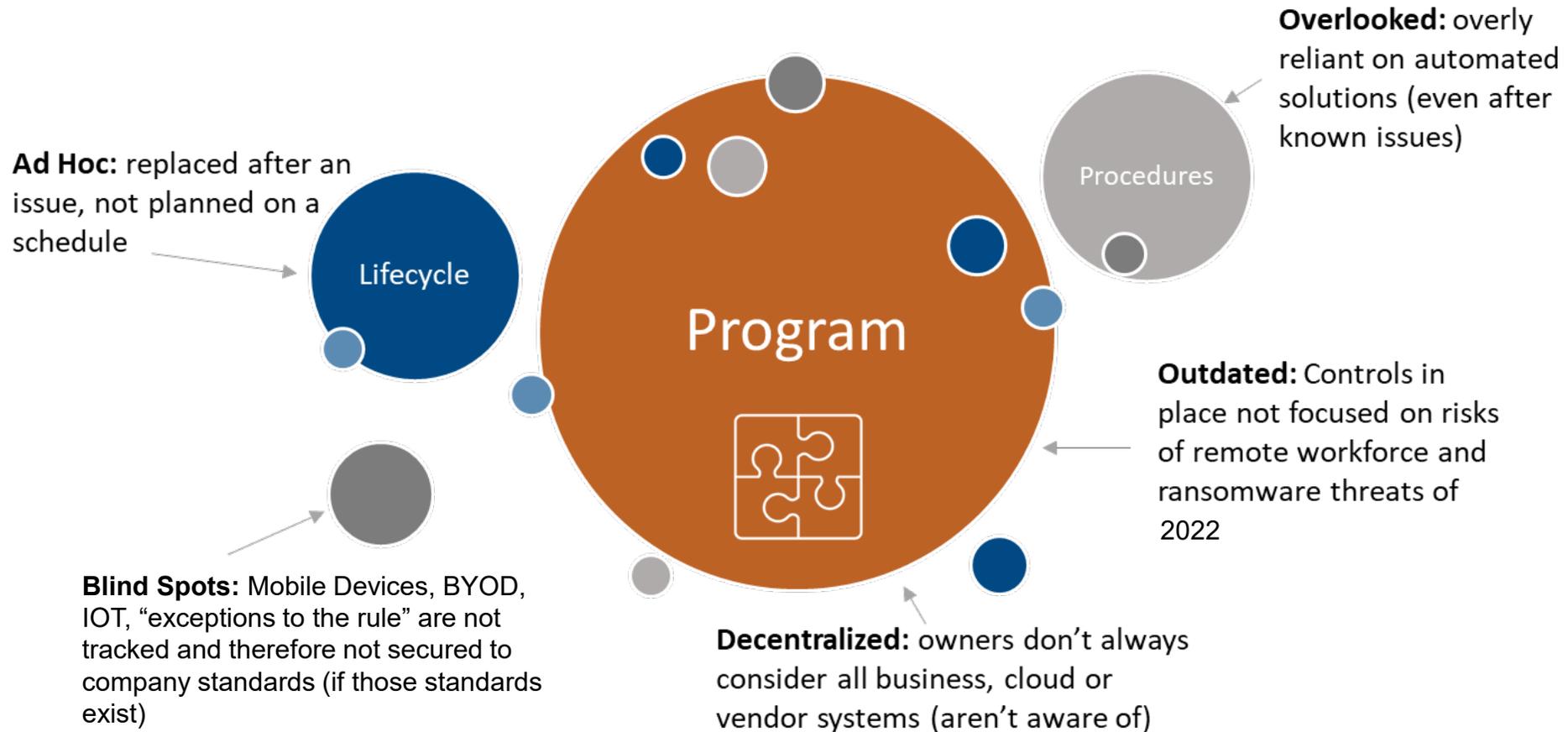
“Know thyself”

How prepared are you for this fight?



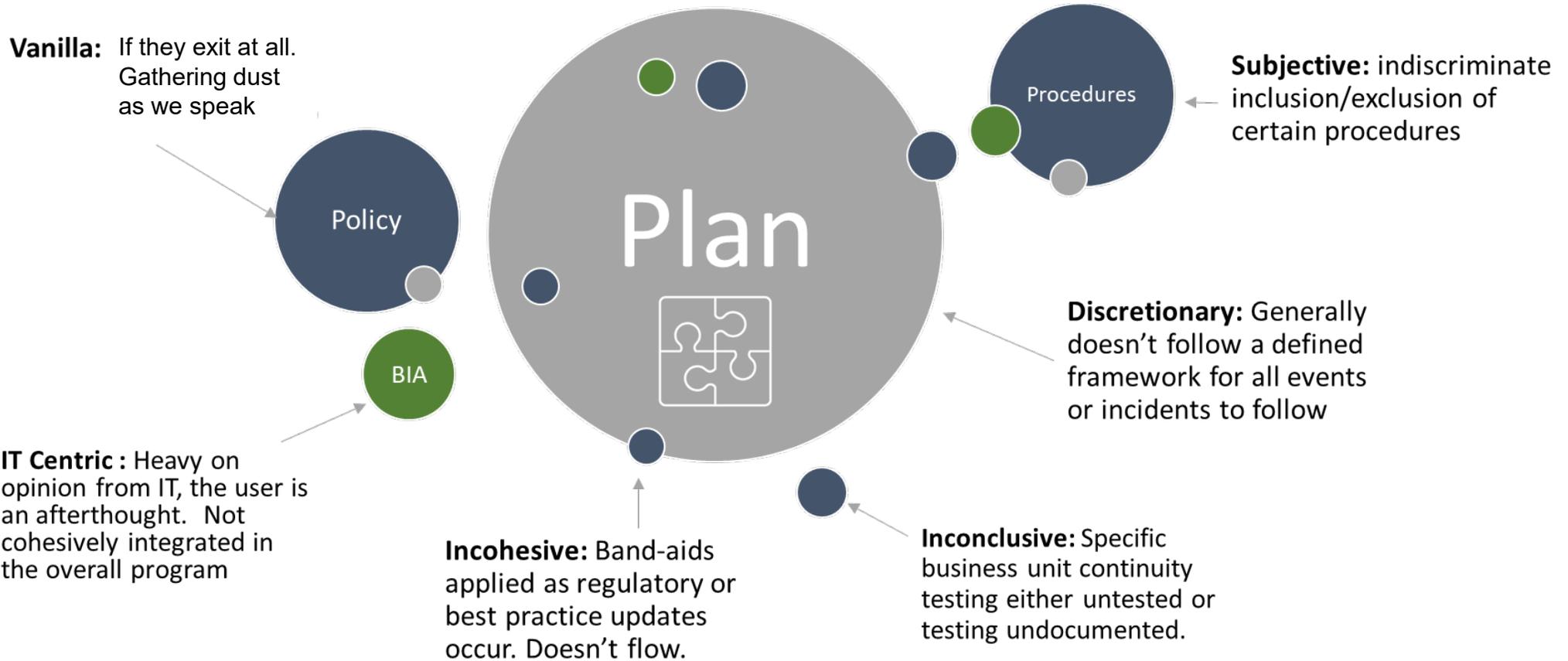


Asset Management: what we see



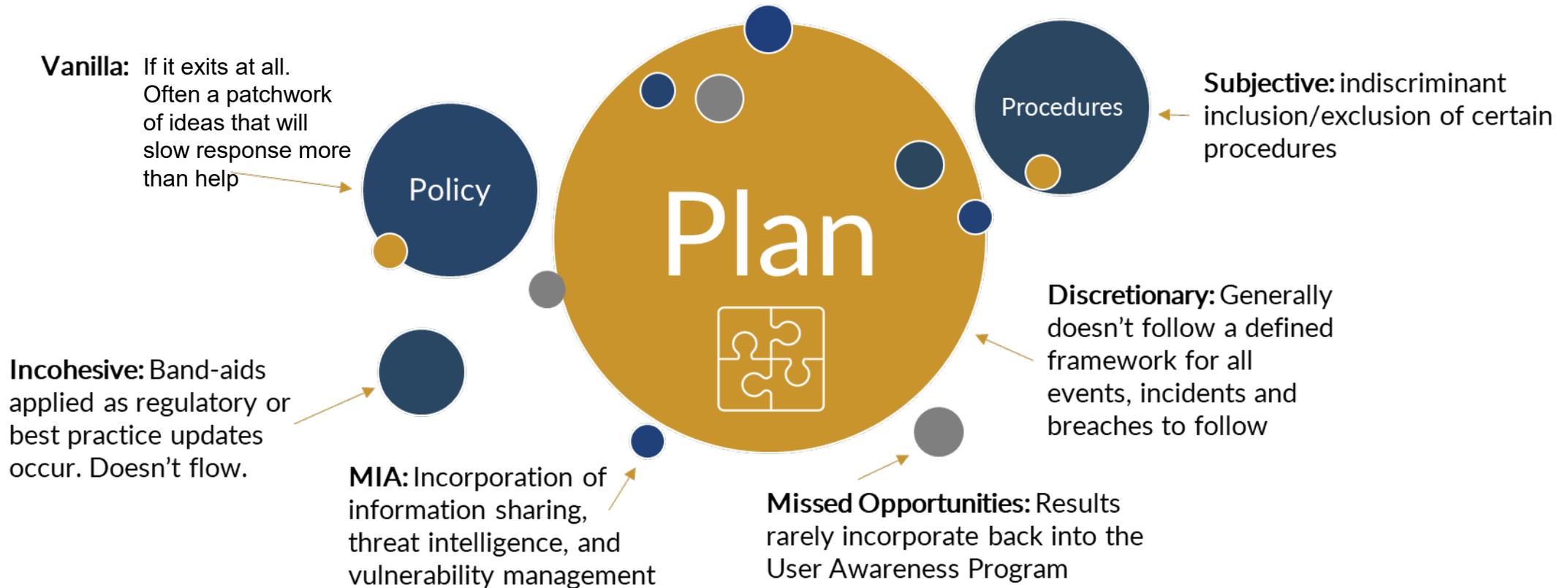


Business Continuity: what we see



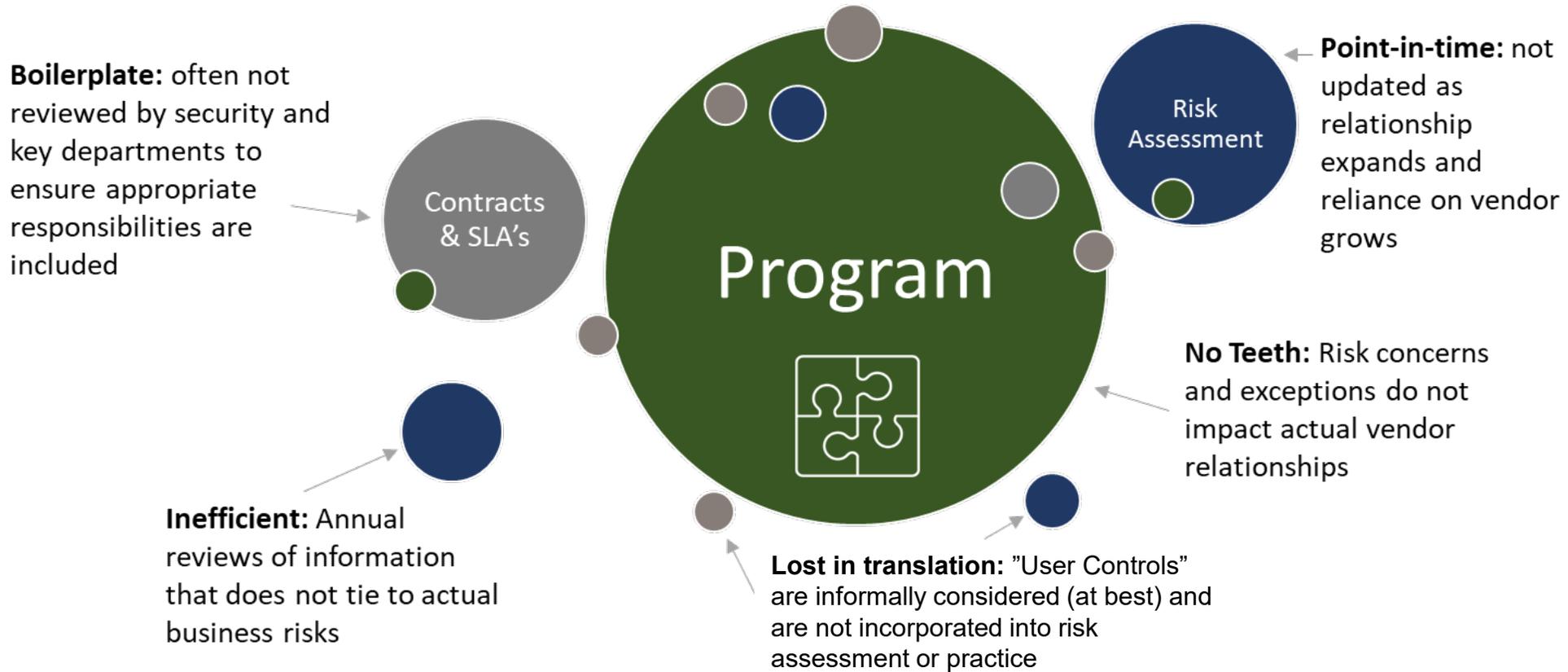


Incident Response: what we see





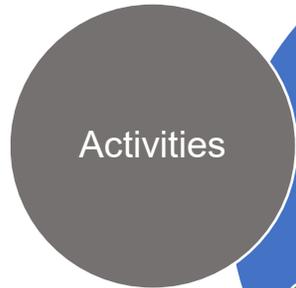
Vendor Management: what we see



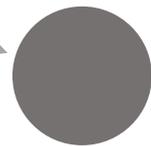


Vulnerability Management: what we see

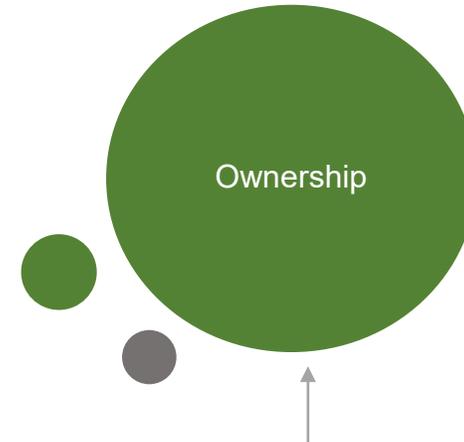
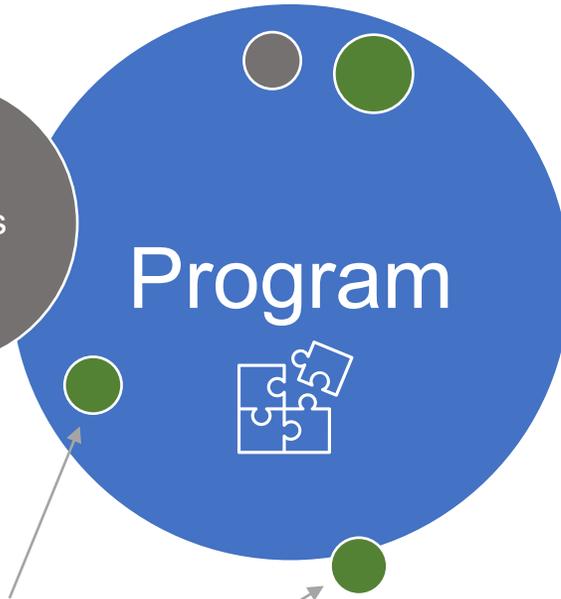
What's the goal: Activities are undefined and inconsistently executed. Historical comparisons often unavailable due to inconsistencies



Who's on first: Output acted upon inconsistently, and progress is rarely monitored or enforced. IT has day jobs!



MIA: Incorporation of Incident Response, Patch Management, Threat Intelligence, Asset Management and user awareness



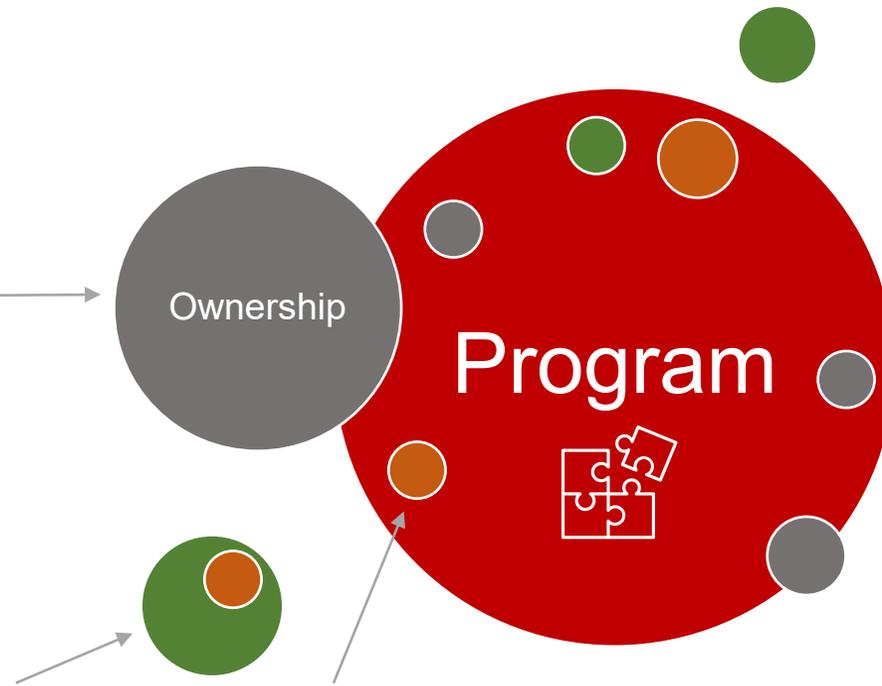
Dead on the vine: Consumed by IT, but rarely (never) summarized and reported to business leaders in a nontechnical/digestible way. Often resulting in reactive funding for security projects



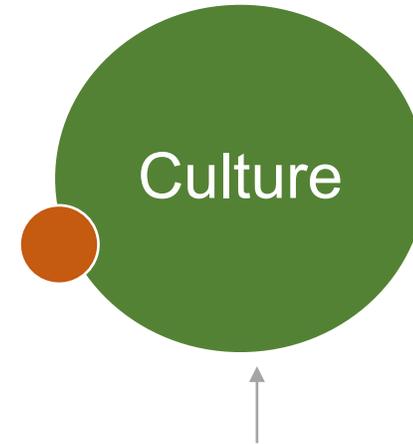
Compliance Management: what we see

What's the goal:

Management expects IT to drive compliance without considering the cost (cultural, \$, and time.) IT aren't compliance experts often biting off more than they can chew.



Pushing Paper: Development of Policy and Procedure is driven by governing body, often templates are used with the goal of checking a box. Culturally integration fails.



Belief: Compliance equals effort. Shortcuts are identified and compliance becomes a façade. The house of cards crumbles when an incident is severe.

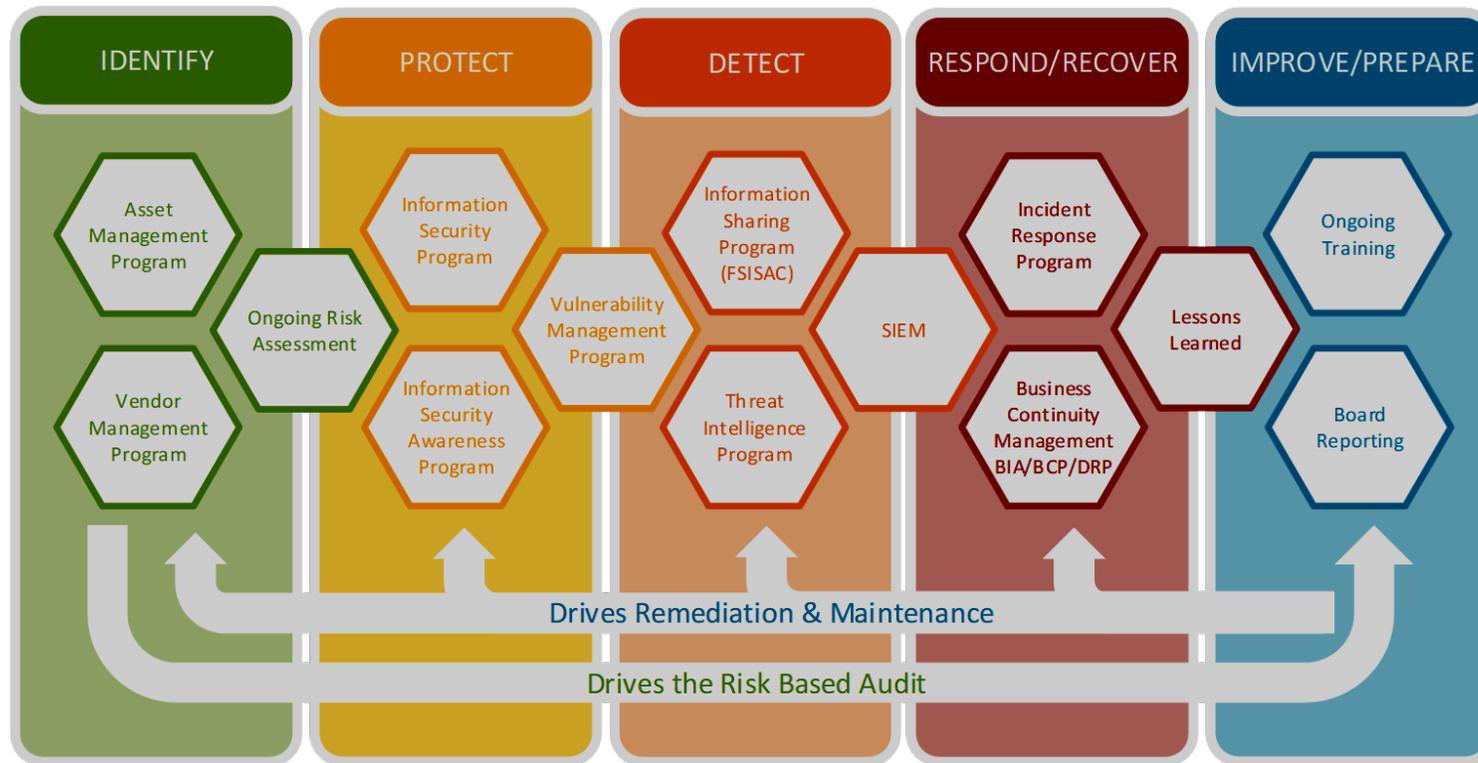


Strategy without tactics is the slowest route to victory. Tactics without strategy is the noise before defeat



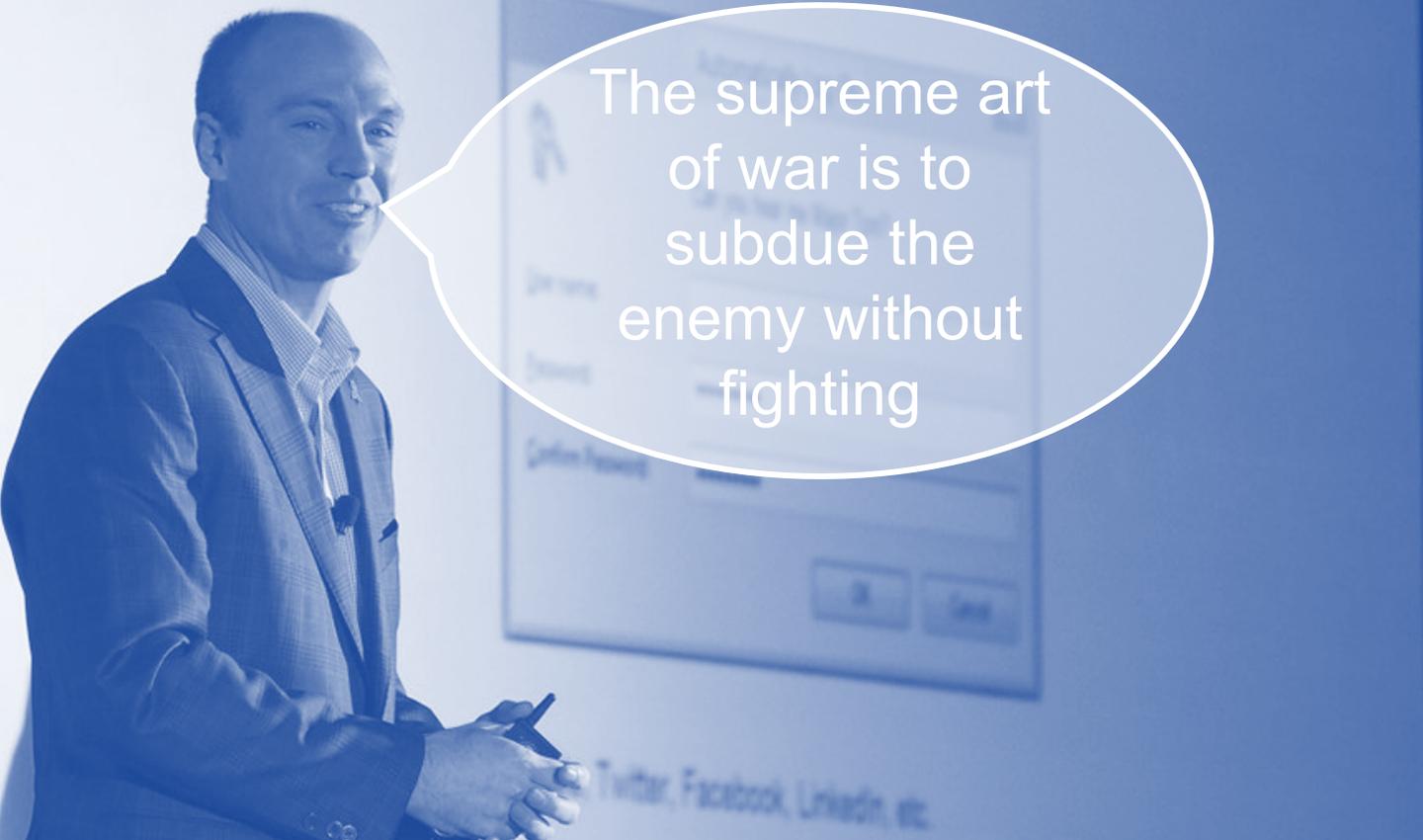
What's your strategy?

Let's learn from a highly regulated industry:





“The controls you’ve implemented today won’t necessarily address the risks of tomorrow.”



The supreme art
of war is to
subdue the
enemy without
fighting

- Understand the ring
- Cybersecurity Strategy & Resource Planning
- Incident Response Planning
- Vulnerability Management Program
- Vendor Management
- Annual Assessments
- Strong Partnerships
- Know thyself



What does the future hold?



“The secret to your future is hidden in your daily routine.”

Questions?