Wisconsin Counties Association

ANNUAL CONFERENCE & Exhibit Hall 2022

1:00 - 2:00 PM

Cybersecurity and Protecting Your County

Aegis

a Charles Taylor Company

Cybersecurity & Protecting Your County

A Reasonable Approach

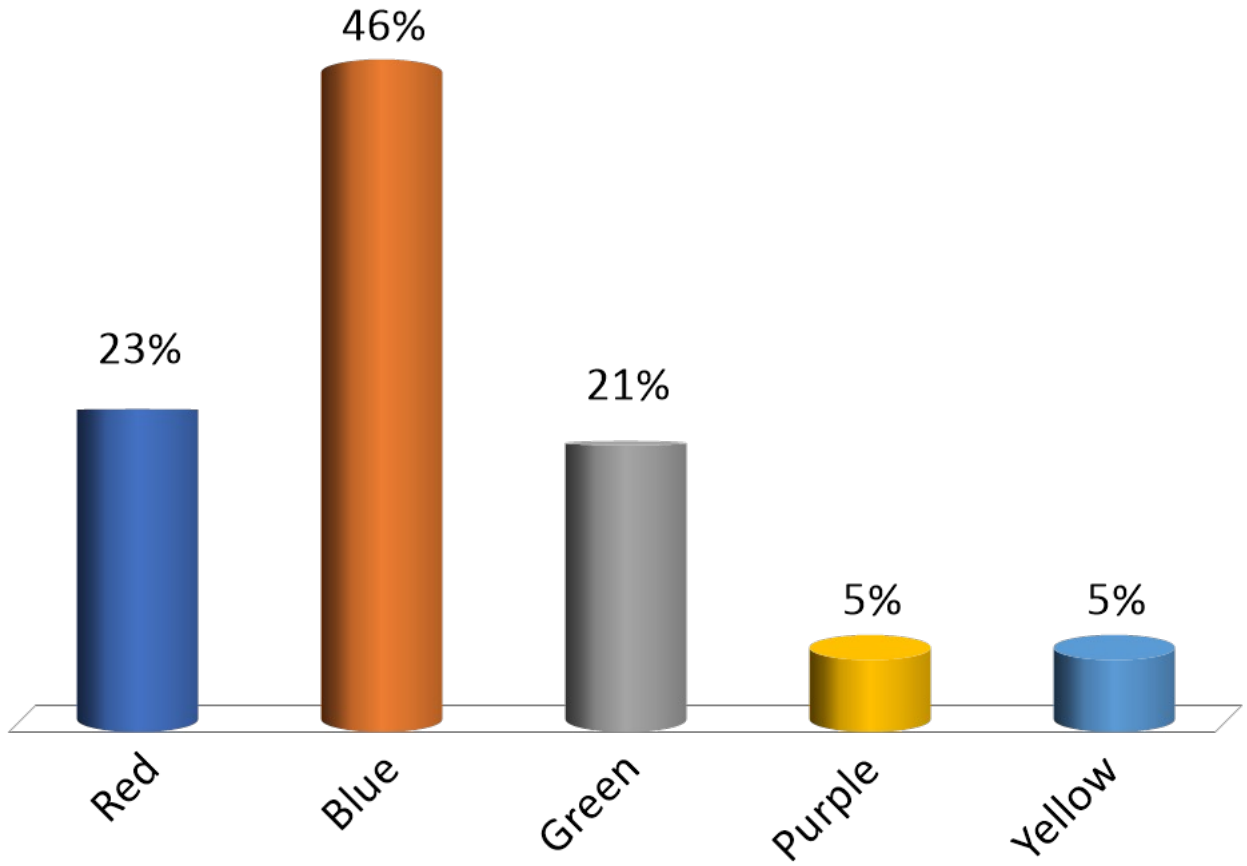
Objectives

Understand the:

- **digital innovation of government and the current cyber risk environment**
- **role of county governance and administration** in **promoting cyber risk management**
- concept of **Reasonable Cybersecurity** and enable county officials to **apply Reasonable Cybersecurity to county decision-making**

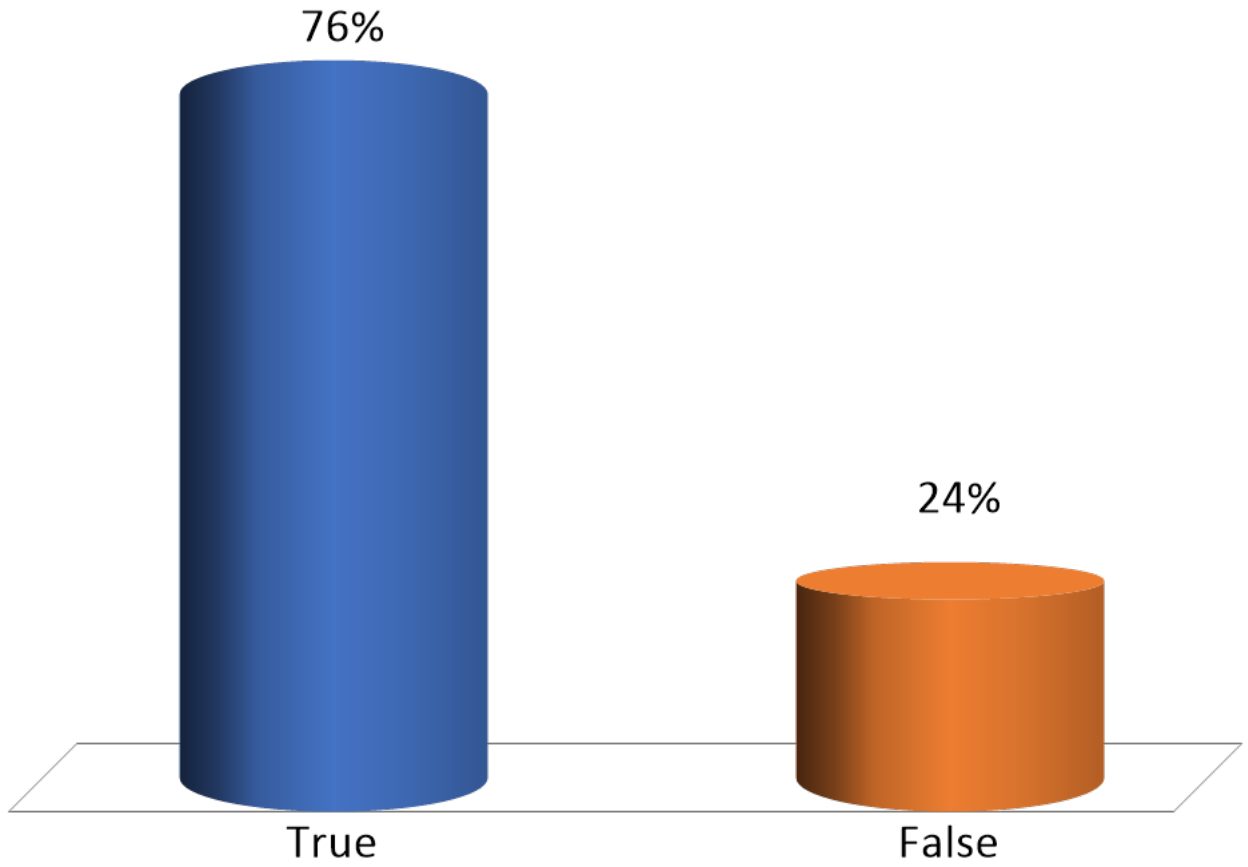
My favorite color is:

A. Red
B. Blue
C. Green
D. Purple
E. Yellow



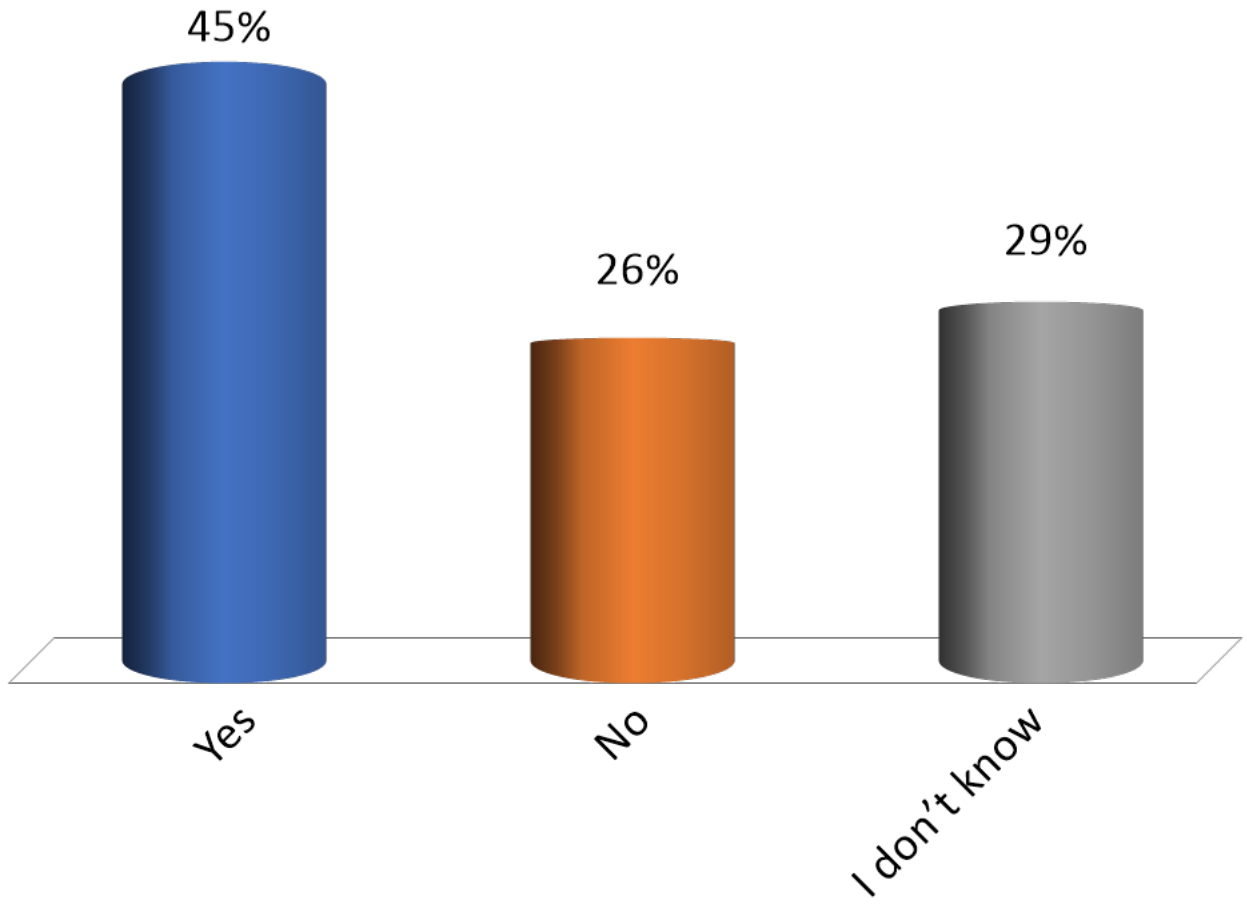
Aaron Rodgers still owns the Chicago Bears.

A. True
B. False



My county has been a victim of a cyberattack.

A. Yes
B. No
C. I don't know



Agenda

- Aegis & C-RECS Program Overview
- The Digital Innovation of Government
- Current Cyber Risk Trends
- Reasonable Cybersecurity
- Cybersecurity resources

Aegis Overview

- General Administrator for the Wisconsin County Mutual Insurance Corporation (County Mutual)
- 53 of the 72 Wisconsin counties
- Began providing our Cyber Enhancement Endorsement in 2014

C-RECS

- Assessment services
- Consulting
- Policy Review & Guidance
- Educational/Training opportunities for staff

> The Internet and subsequent Digital Innovation of Government have changed how we interact but have offered new opportunities for crime.

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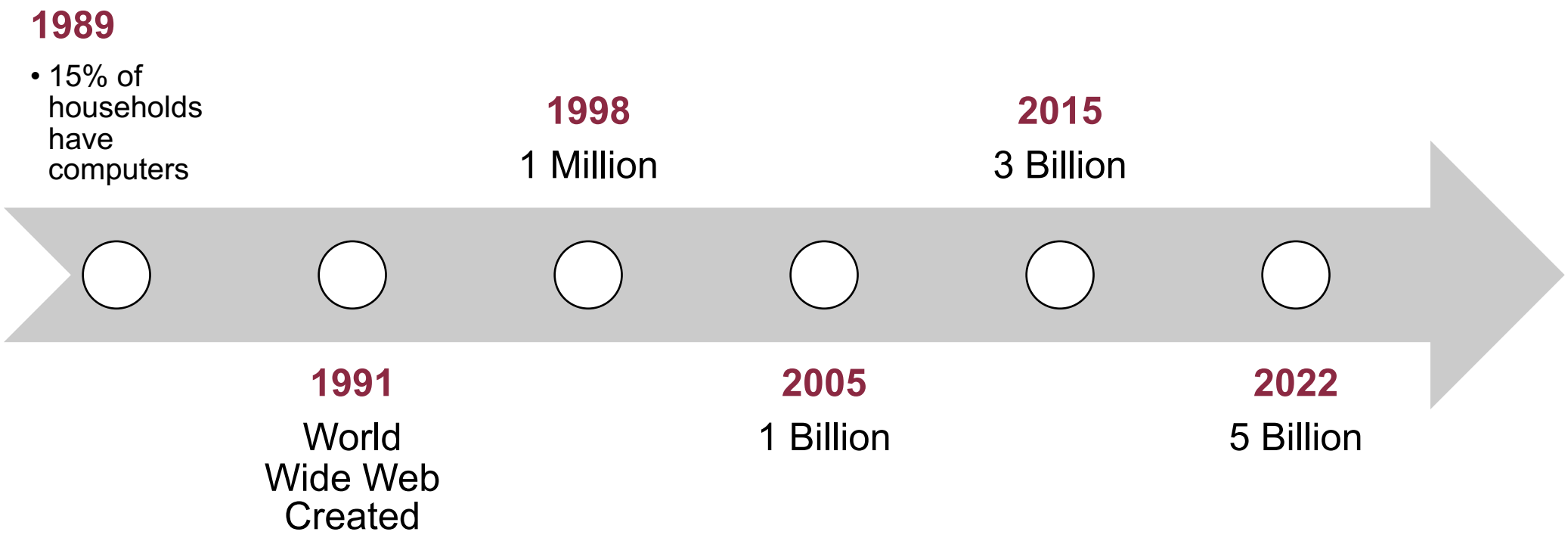
The Internet has changed how we interact



The Internet has changed how we interact

- Our daily lives are now online - we text, email, socialize, and transact
- Our online activities leave behind a “digital footprint” which exposes us to potential risks and criminal activity
- IoT (Internet of Things) – increasing to an estimated 77 billion internet-connected devices by 2025

Digital Innovation of Government

- Improve efficiency and effectiveness of service delivery
- Smart Cities/Counties
- Promote transparency and democracy

The Internet: A New Frontier for crime

- We didn't anticipate that the Internet's own users would someday use the network to attack one another
- The unique characteristics of digital assets have completely changed the nature of possession and theft as we know it
- Evolutions: Individuals >> Organizations/Political/State-Sponsored

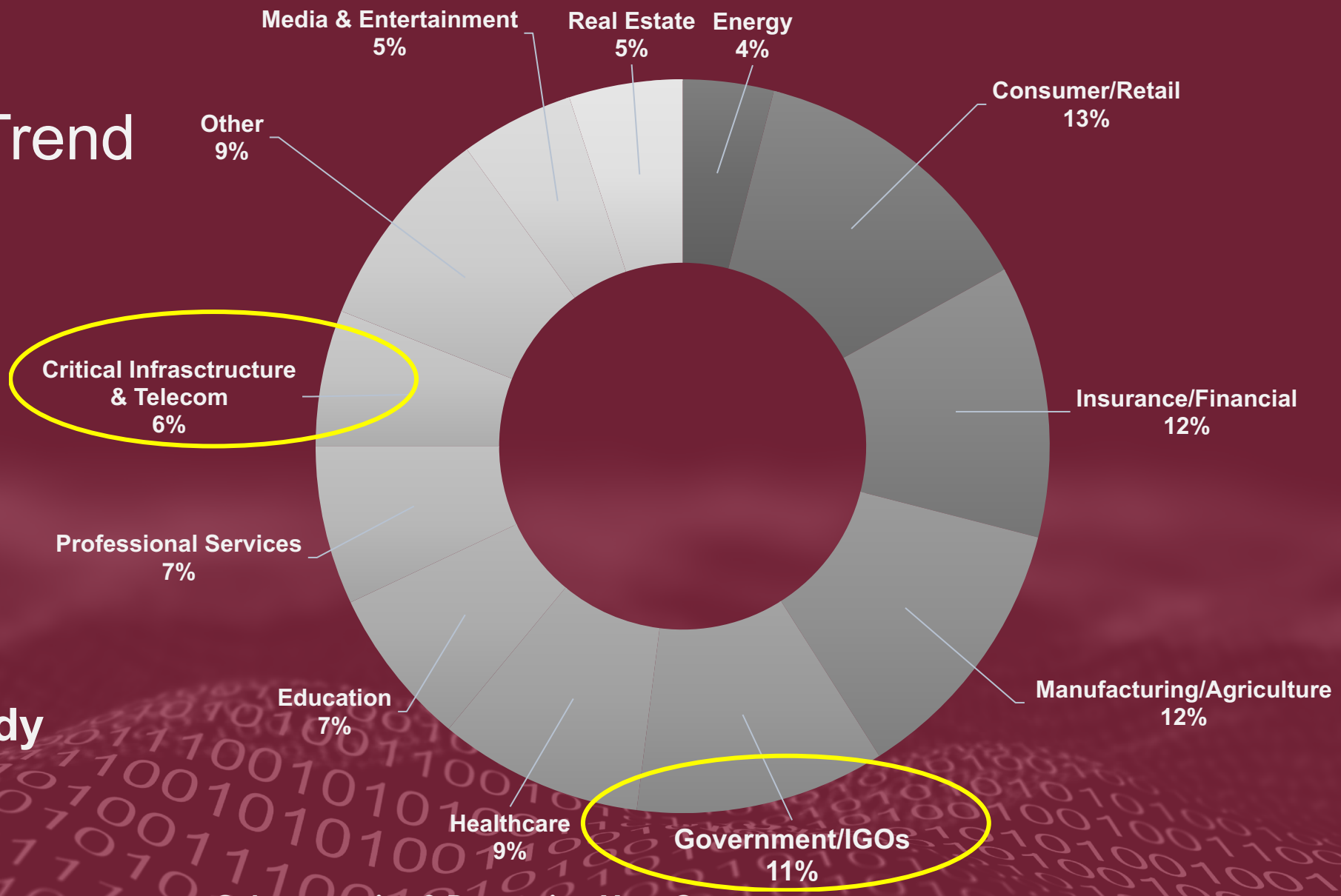
Cybercrime: Tradition vs. Trend

Tradition: Target private corporations with deep pockets, personal data, and payment card data.

Trend: Target public entities with critical systems containing sensitive data.

- **Resource-strapped**
- **Open systems**
- **Critical systems**

Cybercrime: Tradition vs. Trend



2021 Microsoft Cyberattack Study

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Cybercrime’s effect on public entities

Budget Impact

Insurance Availability & Cost

Public Trust

Bond Rating

Service Availability

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Cyber Threat Environment – 2021 ⇨ 2022

82% of attacks involved the **human element**

13% increase in *Ransomware* attacks – more than the last 5 years combined

For system intrusion – **62% of attacks** involved a vendor partner or supply chain member

Cyber Risk Treatment – 2021 ⇨ 2022

Train employees to identify fraudulent and suspicious links, emails, and attachments

Back up your critical systems and data – and store them separately

Evaluate all vendors and revisit contract language regarding data protection/incident notification

Key Takeaways

- The Internet has forever changed the ways we interact
- The Digital Innovation of Government has brought numerous benefits to our operations
- The innovations have

Cyber Risk Leadership for County Governance & Administration

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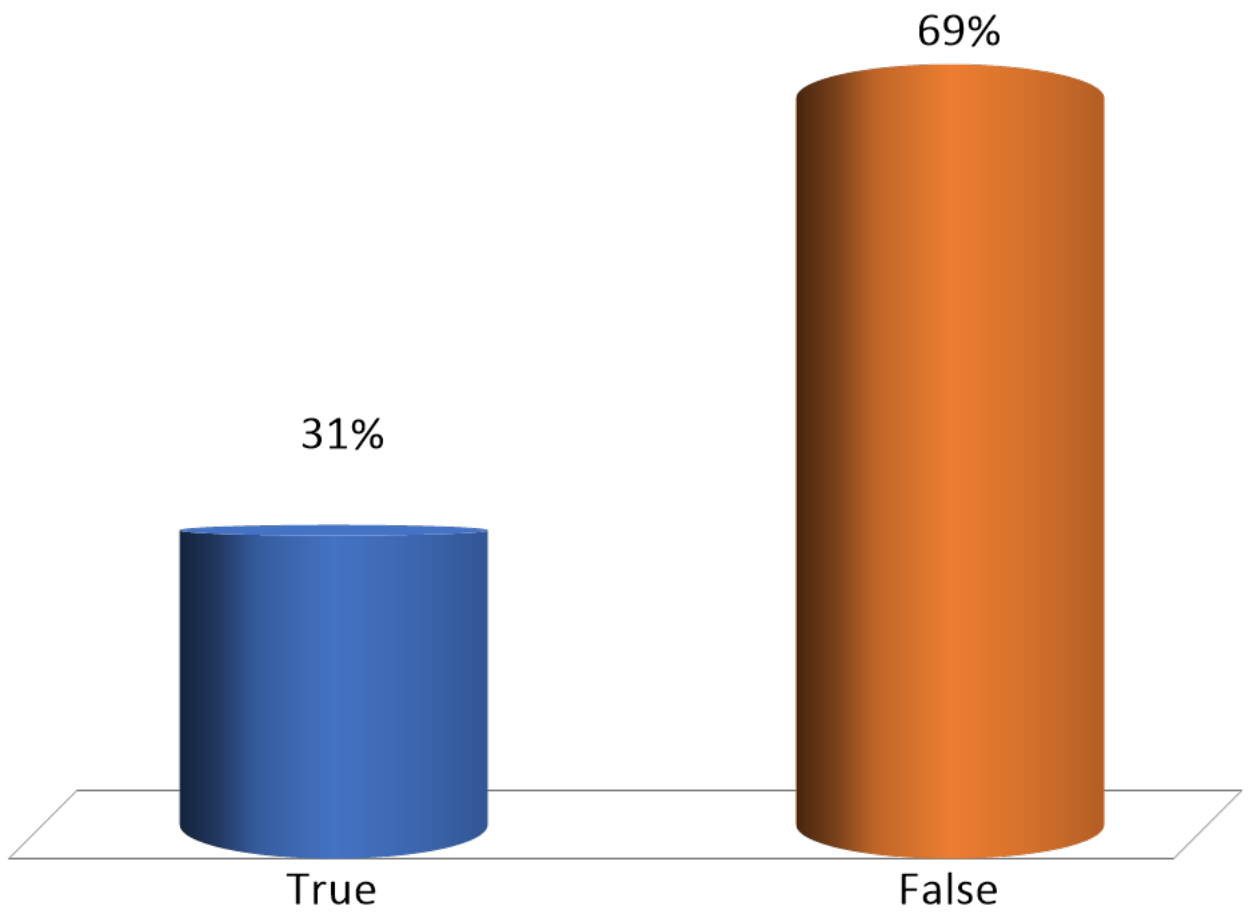
Like most everything, cyber risk management requires **leadership** to set the culture.

You don’t need to be a cybersecurity expert to exert leadership over your county’s cyber risk management program.

Cyber risk is IT's responsibility.

A. True
B. False



From your County Board, Administration, and IT, down to your building custodians, **cybersecurity is a countywide effort**.

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What is your role in county government?

- Inform and guide operational decisions
- Make financial/budgetary recommendations and approvals
- Allocate resources
- Develop policies, procedures, and plans

1 Promote cyber risk management

- Assessment of risks and vulnerabilities → Strategic Planning
- Policies and procedures
- Training and awareness at all levels
- Cyber Incident Response Planning and table-tops
- Vendor Risk Management – contracts/supply chain

2 Promote cyber risk awareness in decision-making

- Consideration of cyber risk should be “Job #1” when evaluating operational and technological change
- Consider “What are the risks, and how does this impact our cybersecurity?”

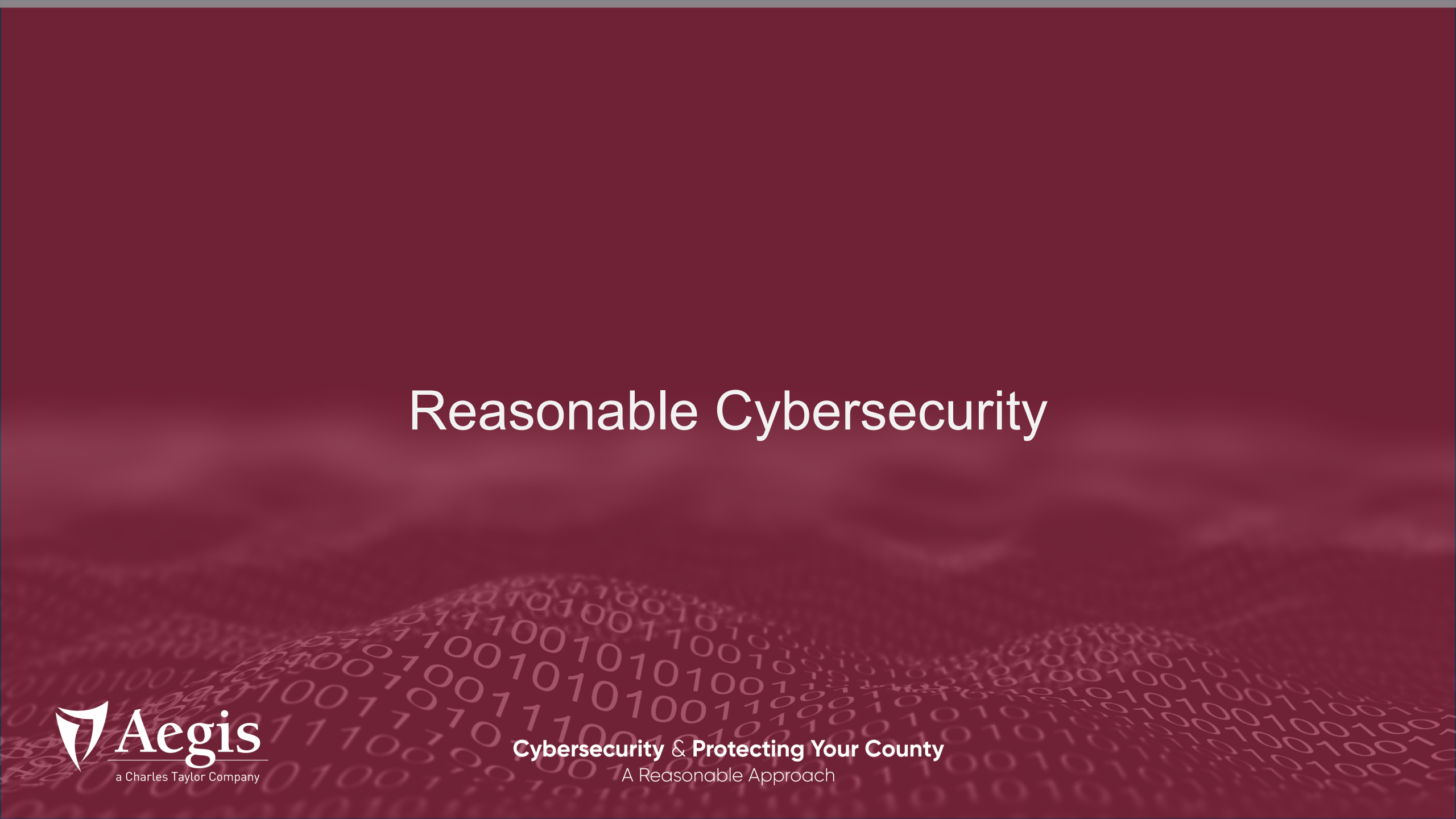
3 Promote a strong cyber risk culture

- Leadership sets the bar – be engaged and proactive
- Foster collaboration and communication
- WE, not US/THEM
- Train every, single, person
- Incorporate cybersecurity expectations into all job descriptions and employee handbooks

4 Provide appropriate funding

- **Not** a blank-check approach, but *prioritize risks and vulnerabilities*
- Ask about Cost-Benefit Analysis for improvements
- Always ask – “Is this reasonable?”

Reasonable Cybersecurity



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rea·son·a·ble

/ˈrēz(ə)nəb(ə)l/

Adjective

As much as is appropriate, fair; moderate.

Sensible. Rational. Logical. Sound. Acceptable.

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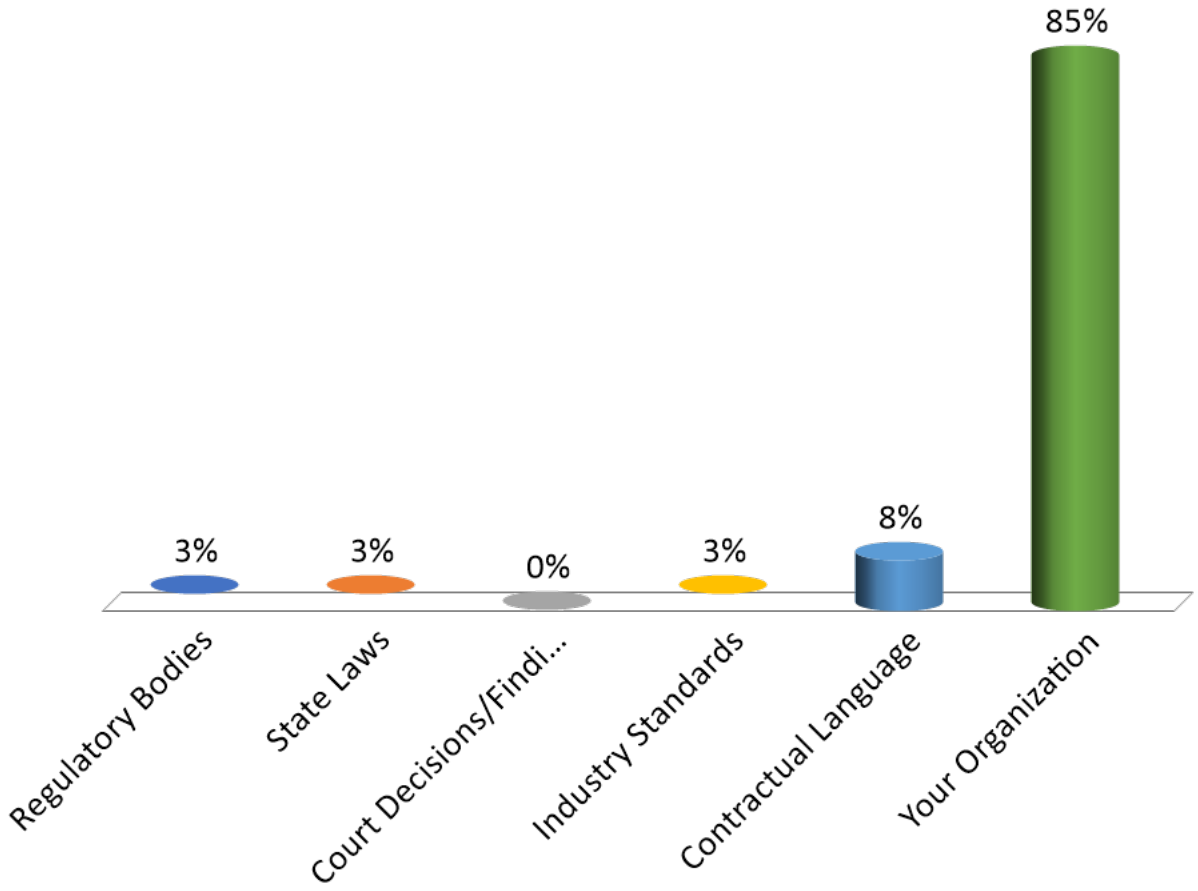
Reasonable Cybersecurity is ***fluid*** by necessity

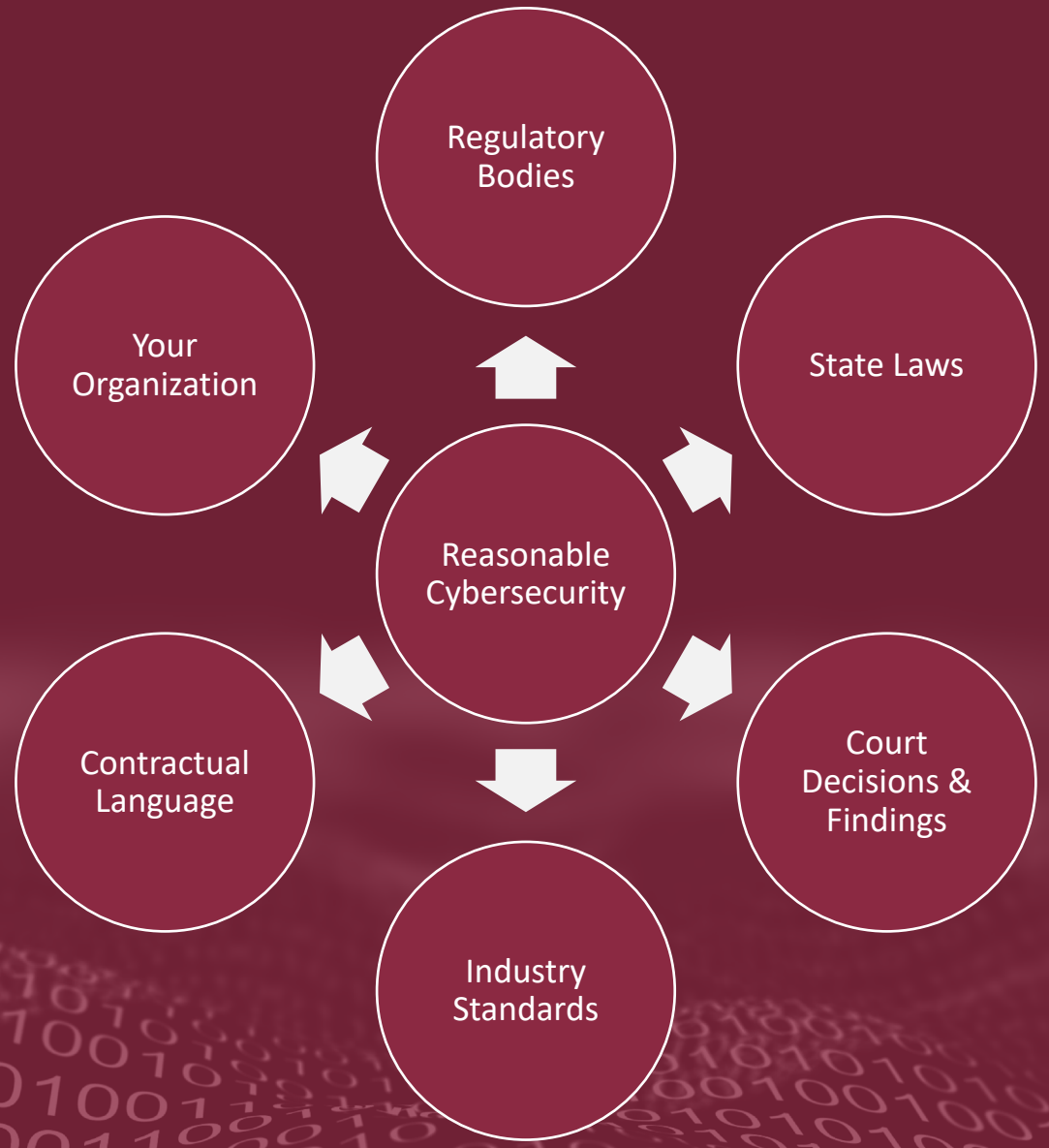
Reasonable Cybersecurity is a **constantly-moving target**.

Who/What defines Reasonable Cybersecurity?

A. Regulatory Bodies
B. State Laws
C. Court Decisions/Findings
D. Industry Standards
E. Contractual Language
F. Your Organization



Who/What defines Reasonable Cybersecurity?



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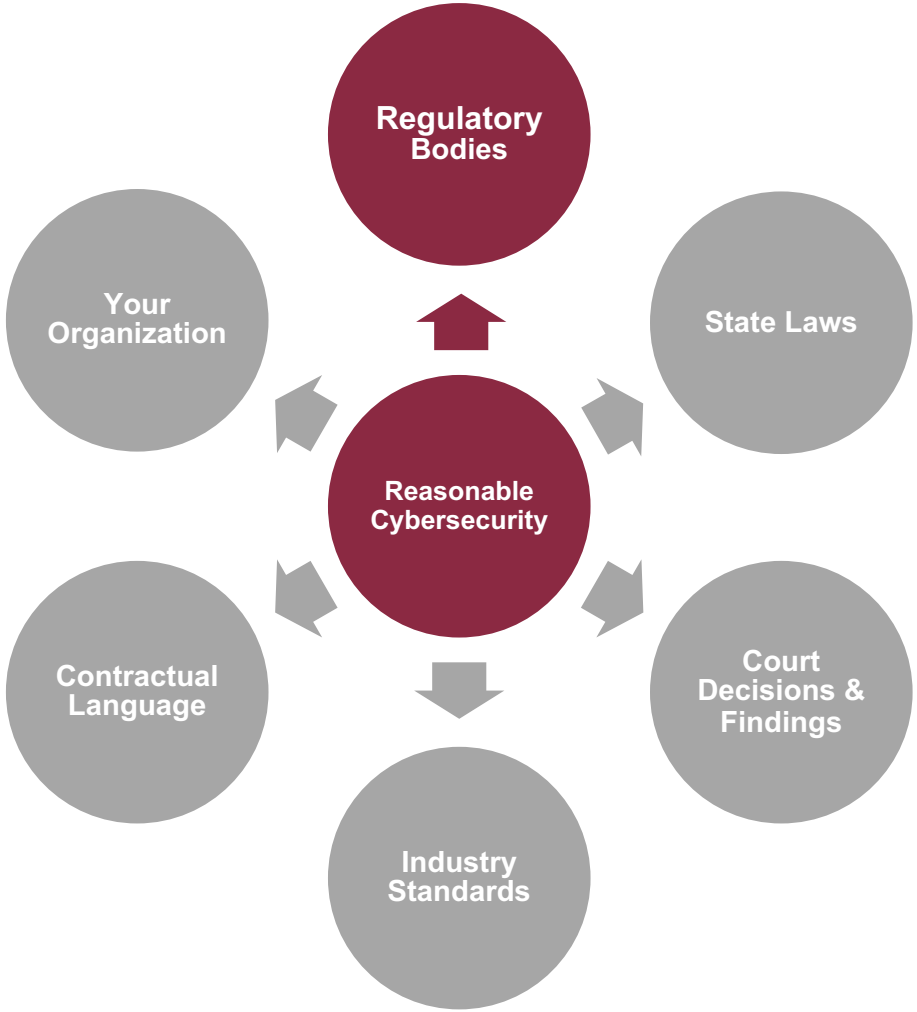
Reasonable Cybersecurity

Requires…

- A clear understanding of risks
- Context
- Cost-Benefit

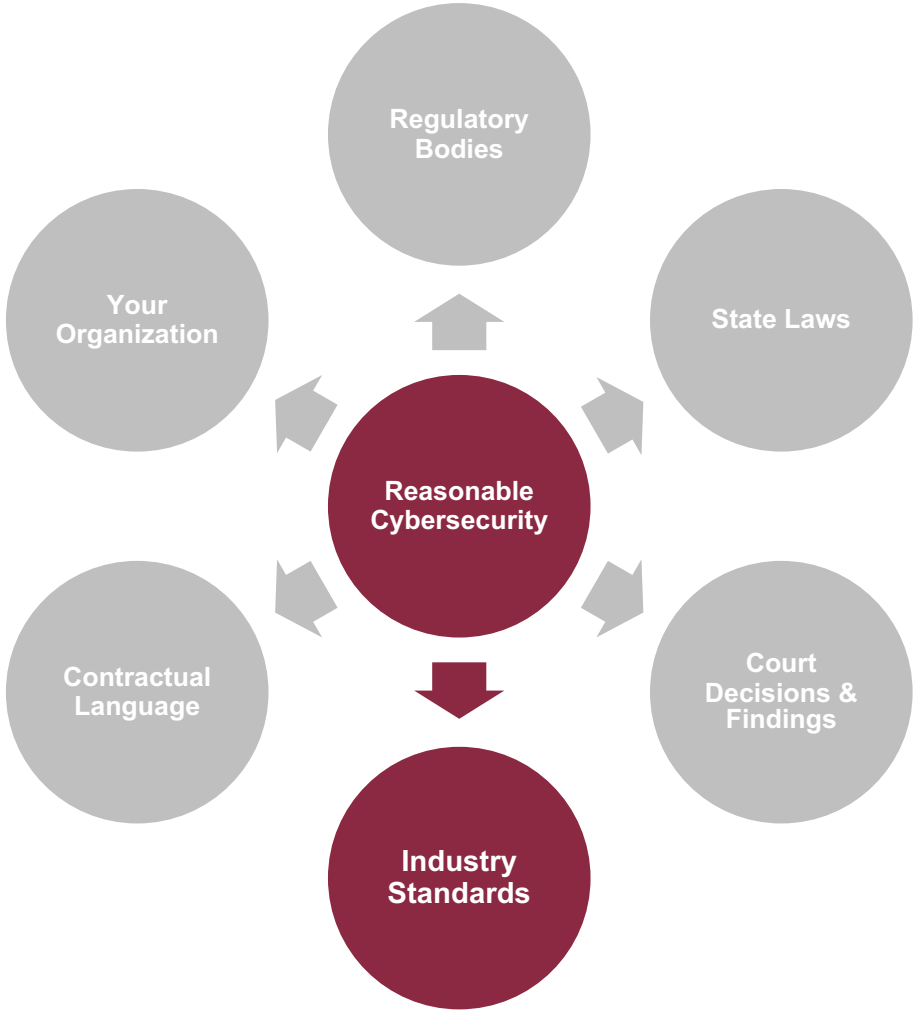
Reasonableness according to…



Regulatory Bodies

- Federal DHHS enforces HIPAA standards
- You store Protected Health Information (PHI) in your nursing home database
- *Implement reasonable and appropriate technical and physical safeguards*

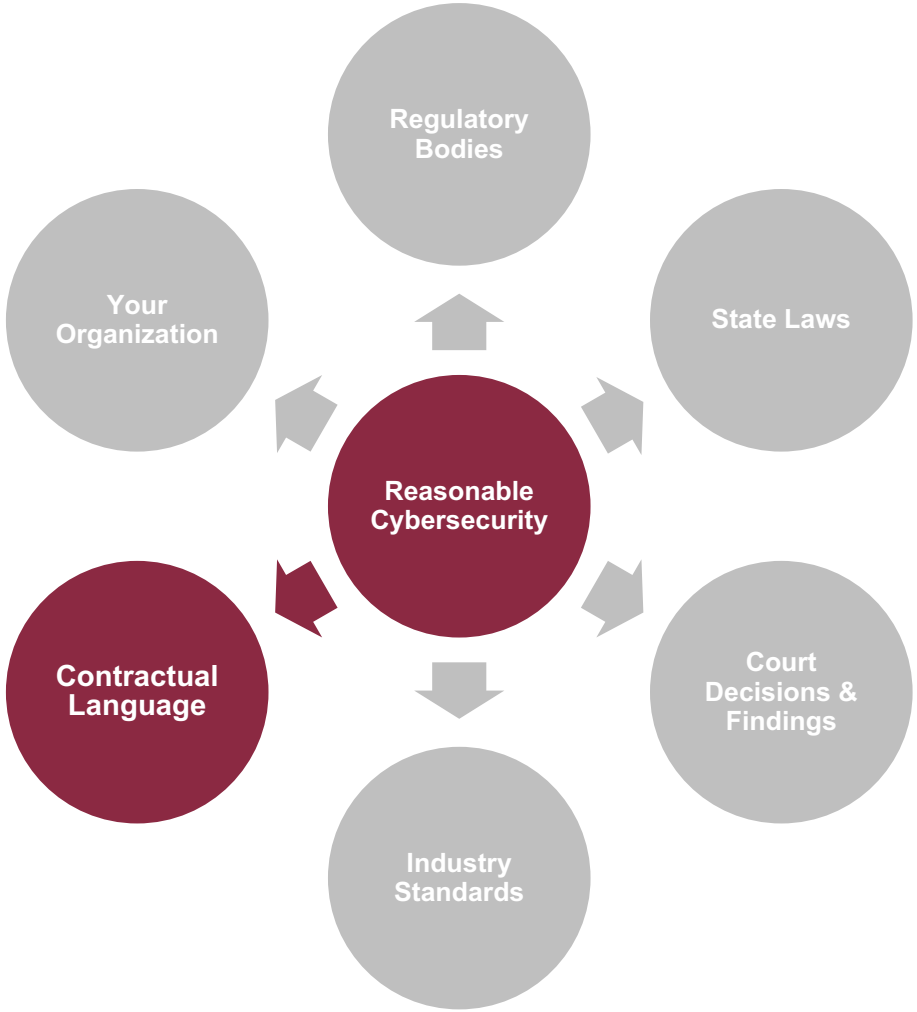
Reasonableness according to…



Industry Standards

- Federal DHS-CISA Election Sector Government Coordinating Council promotes cybersecurity best practices with election administrators
- CISA recommends elections admin review supply-chain election vendors with minimum standards
- Implement vendor review to ensure minimum standards are met

Reasonableness according to…



Contractual Language

- Your County Jail hosts inmates from a neighboring county.
- Bed Lease Agreement calls for technical safeguards to protect inmate information (PII/PHI)
- Implement technical safeguards on inmate databases *and* ensure jail medical vendor meets these safeguards too

Reasonableness according to…

Your Organization

- Type/amount of data you store
- Where do you store the data?
- Work environment
- Access/Login controls

Additional Resources
(they're reasonable, too!)

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Additional Resources

- **Center for Internet Security (CIS) SecureSuite**: Set of self-assessment, benchmarking, and control tools available **for free** for counties
- **Multi-State Information Sharing and Analysis Center (MS-ISAC)**: Operated by CIS, they provide a 24/7/365 Security Operations Center (SOC) that actively manages and communicates intelligence, detection, and response assistance.

Thank You!

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