Board Level and Executive Reporting How the Proposed SEC Cybersecurity Guidelines Will Impact Us

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Agenda

- Introductions
- Goals for today's session
- SEC impact on reporting
- Gentle reminder on risk
- Recommendations
- Resources

Demetrios Lazarikos (Laz)

- A recognized authority for creating information security, fraud, and big data solutions
- 3x CISO
- Co-founder and President, Blue Lava
- 30+ years experience across several verticals
 - Orbitz
 - Sears
 - SilverTail
 - NewEdge Financial / Société Générale
 - vArmour
 - United States Air Force (USAF)
- Undergrad:
 - Colorado State University
- Graduate:
 - Masters in Computer Security, University of Denver
 - MBA: Pepperdine University



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With, by, and for the greater security community

https://community.bluelava.io

Actionable Goals for Today's Session

Advising leadership on the future

Skillfully partnering, advising, and influencing senior leadership on the future while adapting to business and regulatory requirements

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Understanding impact

How the new SEC proposals for Cybersecurity disclosure may impact us and our security programs

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Advising leadership on the future

Skillfully partnering, advising, and influencing senior leadership on the future while adapting to business and regulatory requirements

Understanding impact

How the new SEC proposals for Cybersecurity disclosure may impact us and our security programs

Communicating cybersecurity

Effectively communicate security program within your organization while navigating business risk, systemic risk, and transformation

Research & Statistics



Security Program Management: Priorities and Strategies

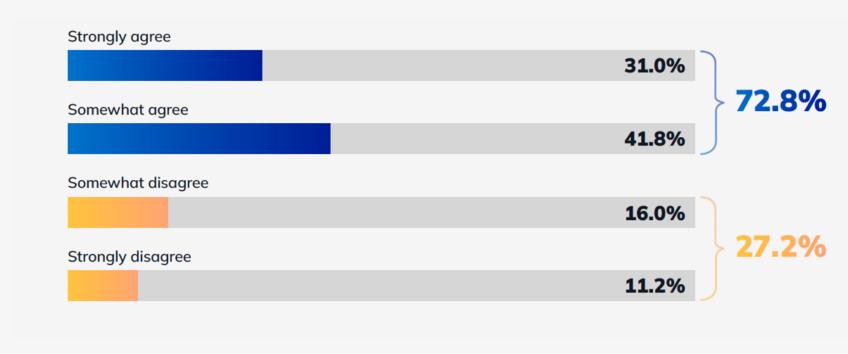
A peer survey of practices and goals for measuring and managing security programs and communicating priorities to executives and boards

- How often they communicate with the board of directors?
- The challenges they face managing security activities and developing roadmaps?
- The impact of clearly communicating security priorities and investments to executive management?

268 CISOs, CIOs, senior security and risk managers www.bluelava.io

Blue Lava Security Program Management Survey

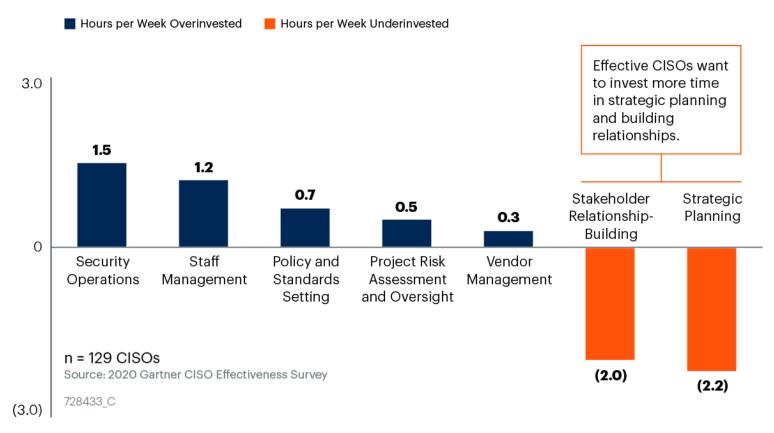
Is communicating security priorities and needs a challenge?



SOURCE: Blue Lava and AimPoint Group Report Security Program Management: Priorities and Strategies

Top-Third-Performing CISOs' Proposed Changes in Time Allocation

Average Hours Overinvested or Underinvested per 50-Hour Workweek



Digital Transformation and Cyber Security Predictions

Predictions

60% of the global GDP will be digitized and 70% of new value created in the economy over the next decade will be based on digitally enhanced platforms.

- World Economic Forum, 2022

Research shows that **emerging digital ecosystems could account for more than \$60 trillion in revenue by 2025** (or more than 30% of global corporate revenue), and yet only 3% of established companies have adopted an active platform strategy.

- World Economic Forum, 2022

Over the past three decades, **\$20** has been added to the GDP **for every \$1 invested in digital technologies**. This is 6.7x the rate for non-digital investments.

- Oxford Economics, 2017

Strillion annually by 2025 making cybercrime equivalent to the third largest economy in the world - right behind the US and China.

- Cybercrime Magazine, November 2020

SEC Impact on Cybersecurity Decisions

SEC Proposed Cybersecurity Guidelines and Reporting

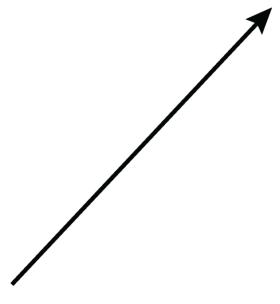
- Incident reporting in 8-K within four days (if material)
- Security program management
- Board oversight for cybersecurity risk with expertise at the board level
- Cybersecurity expertise within the company

Sarbanes-Oxley Lessons Learned

- 2000 (20 years ago)
- Corporate boards to have a director in the room who understood a financial statement

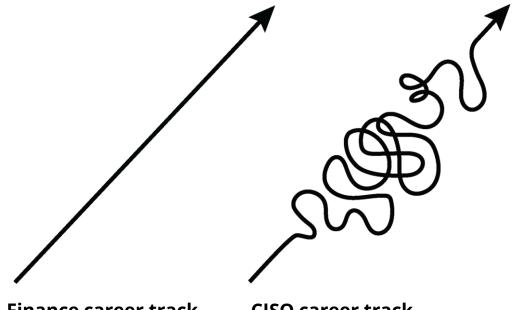
- In 2003, 21% of Boards reported having a financial expert
 - ~146 financial experts in total
- By 2012, 100% of the S&P 500 boards report having at least one financial expert
 - ~1,096 financial experts in total

Comparing Career Tracks



Finance career track

Comparing **Career Tracks**



Finance career track

CISO career track

The Evolution of Digital & Systemic Risk

Mapping the Business to Your Cybersecurity Program

Cyber risk and digital transformation

Exponential adoption of new technology in support of business growth has outpaced the ability to secure it, resulting in systemic cyber risk.

Applying a wider industry lens

Businesses in similar vertical markets or industries leverage technology in similar ways, therefore sharing common security business risks.

Reporting on your business

You must understand the uniqueness of your own business' technical landscape to determine your most critical security business risks.

Educate the Board and Executives Now!

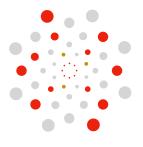
Cyber Risk has Grown Exponentially

RISK



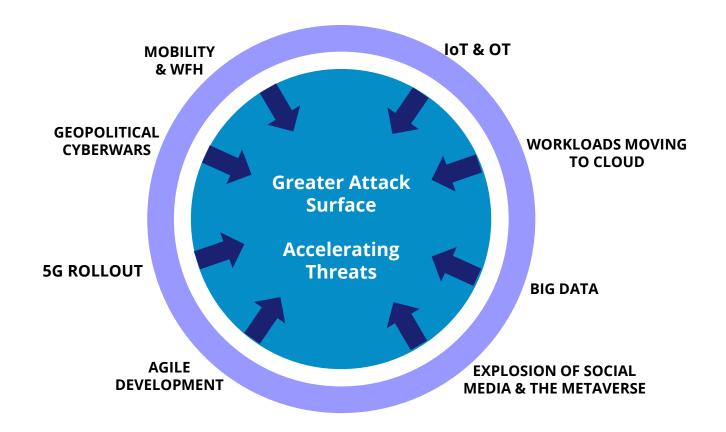






	2000	2007	2014	2021
DEVICE	Desktop/Laptop	Mobile	IoT (Internet of Things)	loE (Internet of Everything)
APPLICATIONS	Client/Server	Web	Agile	Automation
DATA	1 Exabyte	1/4 Zettabyte	1 Zettabyte	100 Zettabytes
SPEED	2G	3G	4G	5G
SOCIAL MEDIA	Instant Messenger	Facebook	Twitter	TikTok, Instagram
PERIMETER	Controlled Access	Wide Access	Hybrid Cloud	No Perimeter
HACKERS	Script Kiddies	Criminal Ecosystem	Hactivists	Other Non-state Actors (Terrorists?)
ATTACKS	Intrusive	Disruptive	Destructive	Cyber Armageddon?

The Next 20 Years



Evolving Security Models

2020

2000

REACTIVE



Perimeter Static Siloed

2010

INTELLIGENCE DRIVEN



Risk-Based Dynamic Leveraged

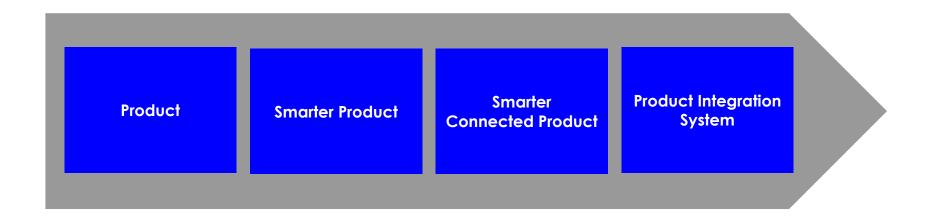
OPERATION-CENTRIC



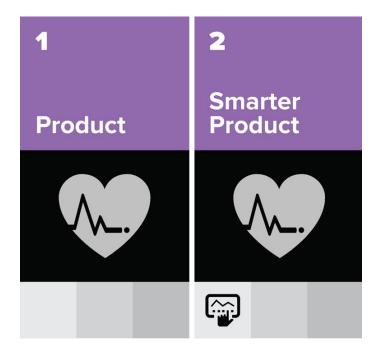
Dynamic Risk AI/ML Driven Ops Focused

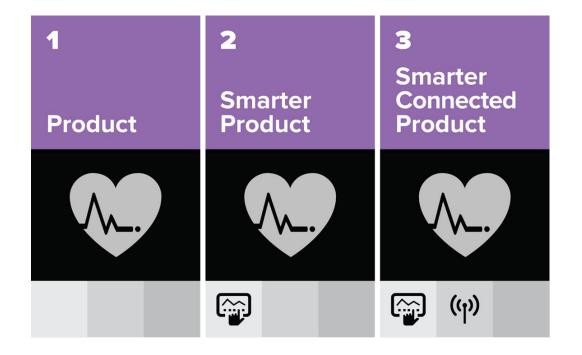
Evolution of Smart Products and Systems

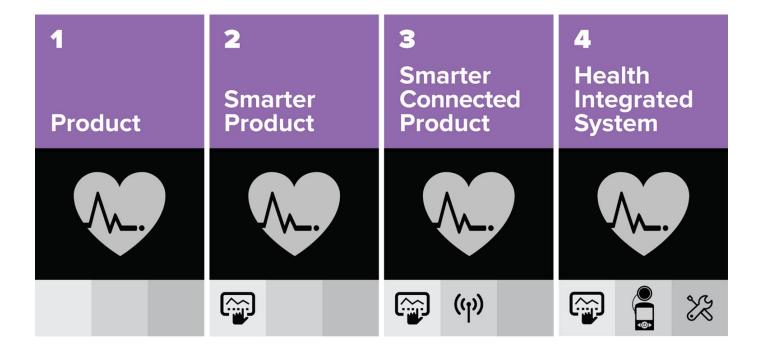
Evolution of Smart Products and Systems



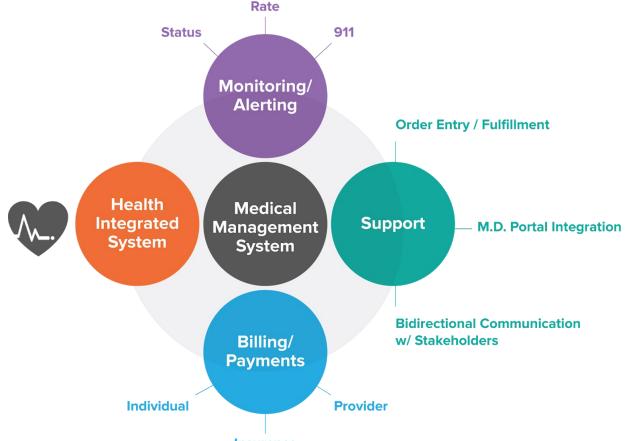




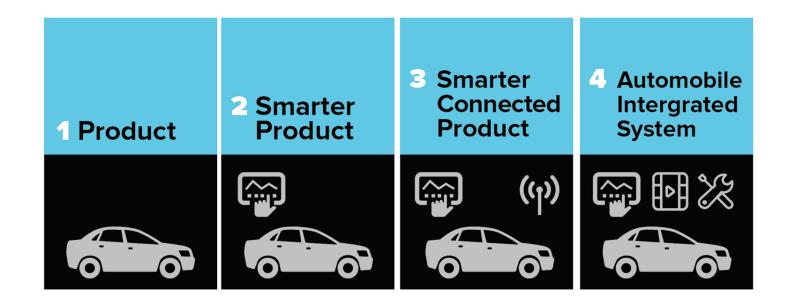




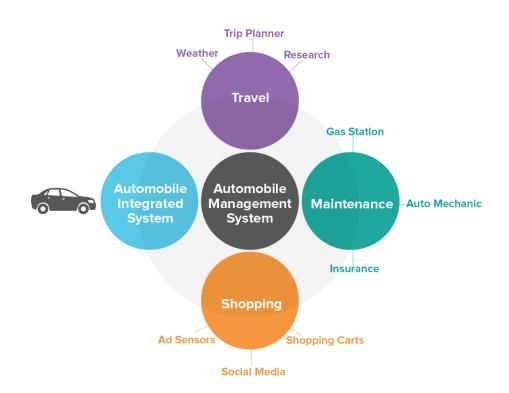
The Medical Integrated System



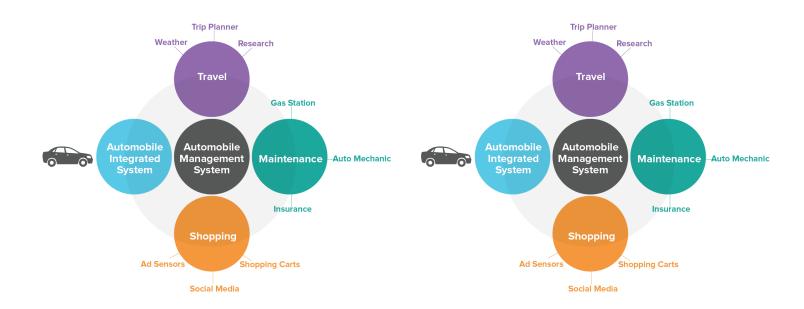
Evolution of the Automobile



The Automobile Integrated System



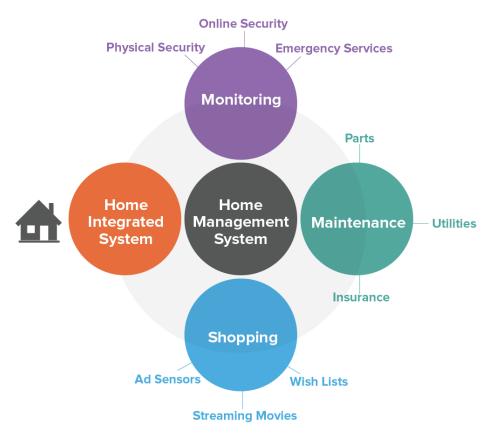
Automobile System of Systems



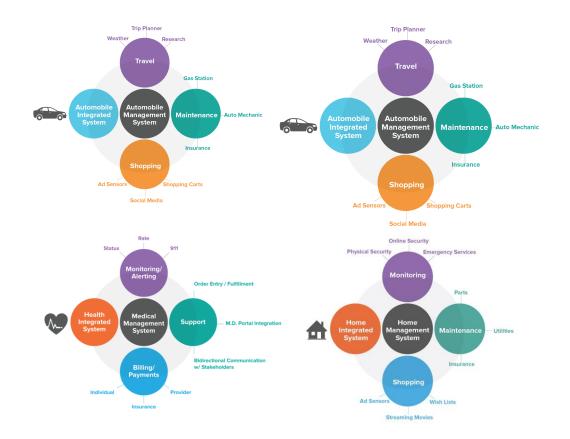
Evolution of the Home



The Home Integrated System



Interconnected System of Systems



Blue Lava, Inc

SEC Proposed Cybersecurity Guidelines and Reporting

- Incident reporting in 8-K within four days (if material)
- Security program management
- Board oversight for cybersecurity risk with expertise at the board level
- Cybersecurity expertise within the company

Blue Lava, Inc.

SEC Proposed Cybersecurity Guidelines Overview

- The SEC is suggesting a new approach to cybersecurity disclosure and reporting
 - https://www.sec.gov/rules/proposed/2022/33-11038.pdf
- This new approach is suggesting required amendments for reporting in the following areas:
 - Disclose cyber incidents in their 8-K within four days of deeming it material
 - Disclose policies, procedures, security program management, and risk assessments for managing risks from cyber threats
 - Disclose the Board's mechanisms for cyber risk oversight
 - Disclose cyber expertise within the company

SEC Proposed Cybersecurity Guidelines Overview 8K Reporting

- A new item (1.05) added to Form 8-K. As is the case with almost all other Form 8-K items, 1.05 would:
 - Require companies to disclose material cybersecurity incidents within four business days
 - The trigger date for the disclosure is the date of the materiality determination NOT the date of discovery of the incident
 - Required disclosure would include:
 - Incident discovery and if it is ongoing
 - A brief description of nature/scope of the incident
 - If data was stolen, altered, accessed, or used for any other unauthorized purpose
 - The effect of the incident on the company's operations
 - Whether the company has remediated (or is currently remediating the incident)

SEC Proposed Cybersecurity Guidelines Overview | Program Management

- Proposed Item 106(b) would therefore require registrants to disclose its policies and procedures, if it has any, to identify and manage cybersecurity risks and threats, including, but not limited to:
 - Operational risk
 - Intellectual property theft
 - Fraud
 - Extortion

SEC Proposed Cybersecurity Guidelines Overview | Program Management

- Proposed Item 106(b) would therefore require registrants to disclose its policies and procedures, if it has any, to identify and manage cybersecurity risks and threats, including, but not limited to:
 - Operational risk
 - Intellectual property theft
 - Fraud
 - Extortion
- Security Program Management
 - The registrant has a cybersecurity **risk assessment program** and if so, provide a description of such program
 - The registrant engages assessors, consultants, auditors, or other third parties in connection with any cybersecurity risk assessment program
 - The registrant has **policies and procedures** to oversee and **identify the cybersecurity risks** associated with its use of any **third-party service provider** (including, but not limited to, those providers that have access to the registrant's customer and employee data)

SEC Proposed Cybersecurity Guidelines Overview | Program Management

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Security Program Management

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- The registrant has policies and procedures to oversee and identify the cybersecurity risks associated with its use of any third-party service provider (including, but not limited to, those providers that have access to the registrant's customer and employee data)

Monitoring/Alerting/Incidents

- The registrant undertakes activities to prevent, detect, and minimize effects of cybersecurity incidents
- The registrant has business continuity, contingency, and recovery plans in the event of a cybersecurity incident
- Previous cybersecurity incidents have informed changes in the registrant's governance, policies and procedures, or technologies
- Cybersecurity related risk and incidents have affected or are reasonably likely to affect the registrant's results of
 operations or financial condition and if so, how cybersecurity risks are considered as part of the registrant's
 business strategy, financial planning, and capital allocation and if so, how

SEC Proposed Cybersecurity Guidelines Overview | Internal Expertise

- Specifically, as it pertains to the board's oversight of cybersecurity risk, disclosure required by proposed Item 106(c)(1) would include a discussion, as applicable, of the following:
 - Whether the entire board, specific board members or a board committee is responsible for the oversight of cybersecurity risks;
 - Whether and how the board or board committee considers cybersecurity risks as part of its business strategy, risk management, and financial oversight

SEC Proposed Cybersecurity Guidelines Overview | Internal Expertise

- Specifically, as it pertains to the board's oversight of cybersecurity risk, disclosure required by proposed Item 106(c)(1) would include a discussion, as applicable, of the following:
 - Whether the entire board, specific board members or a board committee is responsible for the oversight of cybersecurity risks;
 - Whether and how the board or board committee considers cybersecurity risks as part of its business strategy, risk management, and financial oversight
- Qualified and Trained Personnel
 - Whether the registrant has a designated chief information security officer, or someone in a comparable position, and if so, to whom that individual reports within the registrant's organizational chart (and experience)
 - Whether certain management positions or committees are responsible for measuring and managing cybersecurity risk, specifically the prevention, mitigation, detection, and remediation of cybersecurity incidents, and the relevant expertise of such persons or members
 - Frequency of this person reporting to the board of directors or a committee of the board of directors on cybersecurity risk

SEC Proposed Cybersecurity Guidelines Overview | Board Expertise

- Specifically, as it pertains to the board's oversight of cybersecurity risk, disclosure required to amend Item 407 of Regulation S-K by adding paragraph (j) to require:
 - Disclosure about the cybersecurity expertise of members of the board of directors of the registrant, if any.
 - If any member of the board has cybersecurity expertise, the registrant would have to disclose the name(s) of any such director(s), and provide such detail as necessary to fully describe the nature of the expertise.

SEC Proposed Cybersecurity Guidelines Overview | Board Expertise

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- Qualified and Trained Personnel
 - Whether the director has prior work experience in cybersecurity, including, for example, prior experience as an information security officer, security policy analyst, security auditor, security architect or engineer, security operations or incident response manager, or business continuity planner
 - Whether the director has obtained a certification or degree in cybersecurity
 - Whether the director has knowledge, skills, or other background in cybersecurity, including, for example, in the areas of security policy and governance, risk management, security assessment, control evaluation, security architecture and engineering, security operations, incident handling, or business continuity planning

Reporting

STEP BY STEP

A Board Calendar for US Public Companies

	Full Board	Audit Committee	Comp Committee	Corp Gov
January	X	X	X	X
February	X	X	X	
March				
April	X (Phone)	X (Phone)	X (Phone)	X (Phone)
May	X	X		
June				
July	X	X	X	X
August				
September (Retreat)	X			X
October		X (Phone)		
November	X		X	
December		X		

Recommended Structure

STEP BY STEP

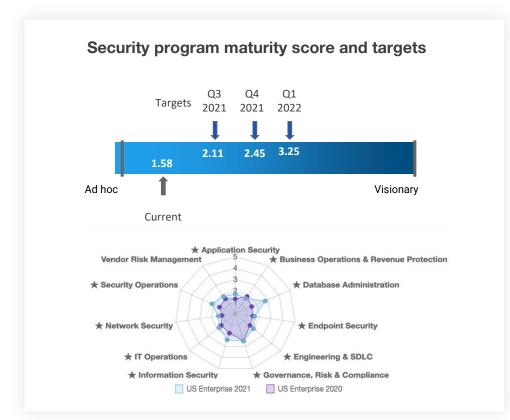
A Board Calendar for US Public Companies

- NOT Under Audit/IT Audit
- Separate Cyber Committee
- Led by the CISO

	Full Board	Audit Committee	Comp Committee	Corp Gov	Cyber Committee
January	X	X	X	X	X
February	X	X	X		X
March					
April	X (Phone)	X (Phone)	X (Phone)	X (Phone)	X (Phone)
May	Х	X			
June					
July	X	X	X	X	X
August					
September (Retreat)	X			X	Х
October		X (Phone)			
November	X		X		X
December		X			

Where we are

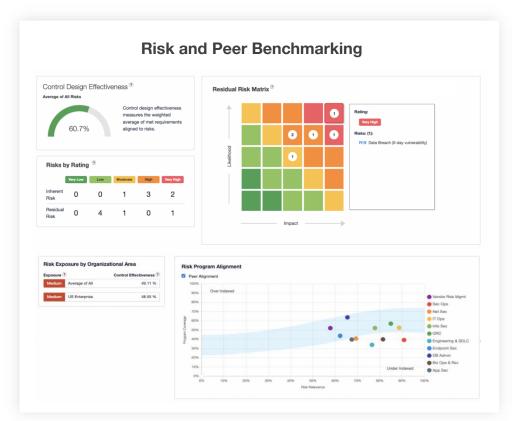
Board of Directors Cybersecurity Update





Where we are

Board of Directors Cybersecurity Update





Recommendations

PREPARING FOR THE SEC PROPOSED GUIDELINES

Recommendations

Relationships and Accountability

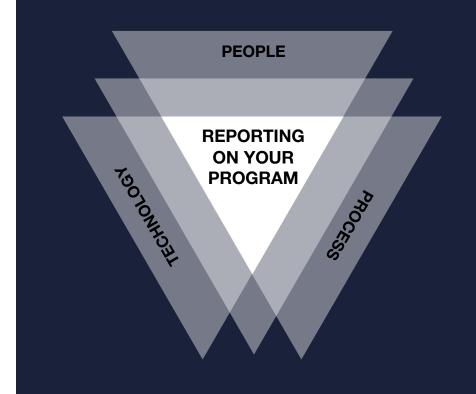
Build, educate, and nurture relationships with internal and external key business partners now

Data

Evaluate whether or not you have the data and systems you need to report

Communication & Reporting

Examine if you're effectively communicating and reporting clearly & consistently



Resources

- San Diego ISACA
 - https://isaca-sd.org/
- The SEC Proposed Cybersecurity Guidelines
 - https://www.sec.gov/rules/proposed/2022/33-11038.pdf
- Blue Lava AimPoint Survey
 - https://bluelava.io/security-program-management-priorities-and-strategies/
- SEC Webinar Prep Discussions
 - Part 1 Understanding the Impact
 - https://info.bluelava.io/webinar-part-one-sec-guidelines
 - Part 2 What Now
 - https://info.bluelava.io/webinar-part-two-sec-guidelines
 - Part 3 Impact on my Career
 - https://info.bluelava.io/webinar-part-three-sec-guidelines
- CISO Evolution | ISBN-13: 978-1119782483 | ISBN-10: 1119782481
- If It's Smart, It's Vulnerable 1st Edition | ISBN-10: 1119895189 | ISBN-13: 978-1119895183
- The Great Reboot: Succeeding in a Complex Digital World Under Attack From Systemic Risk | ISBN-10 : 173504301X | ISBN-13 : 978-1735043012

Thank You!

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