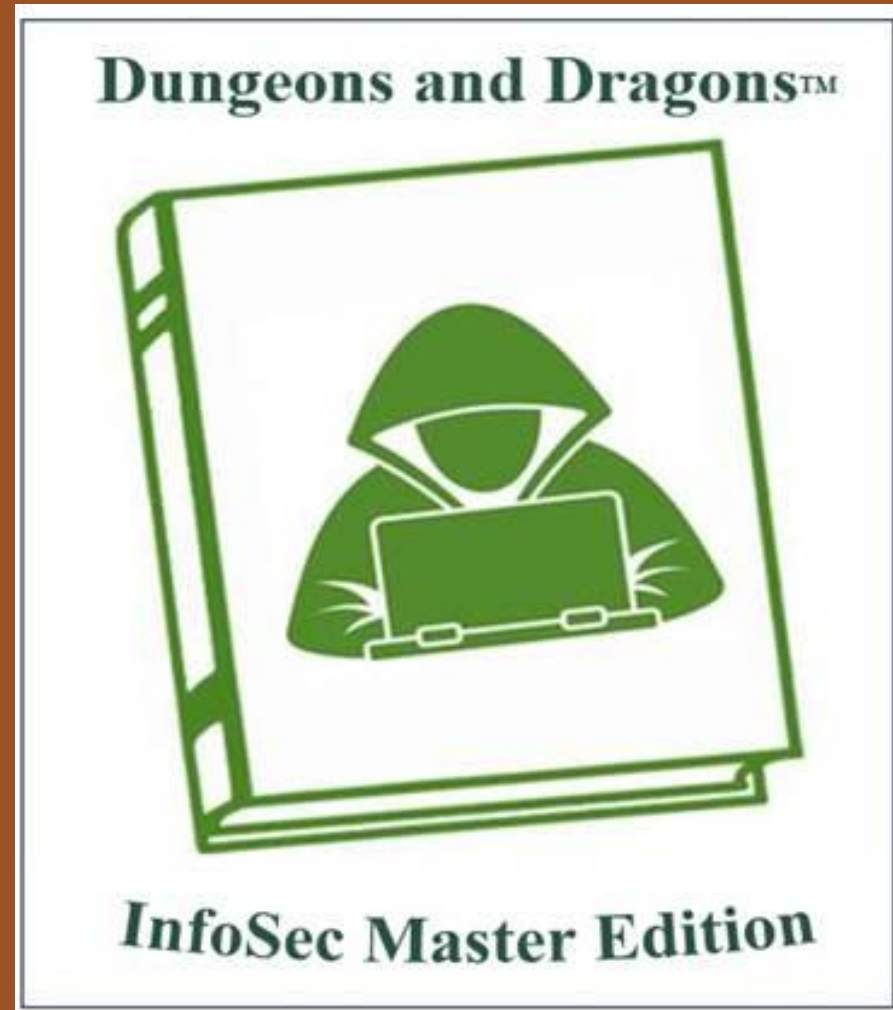


Welcome To The 10th Annual Hacking Conference



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Business Leadership and Cybersecurity Integration

- 10th Annual IIA/ISACA IT Hacking Conference
- Chicago, IL
- November 6, 2023

Eric Jeffery, TOGAF Master Architect
AlgoSec
Regional Solutions Engineer
eric.Jeffery@algosec.com

Agenda

- introduction
- leadership matters
- disparity requires variety
- true stories
- statistics
- engage and understand
- level up cyber security
- conclusion: solutions that make a difference



introduction

Disparate Entities Experience Unique Challenges



people training
locations technology
regulations
industry skills size
priorities revenue
networks geography



Distinct Enterprises
Require Varying
Solutions

true stories – beware & be
aware

Third (4th, 5th, Etc.) Party Devastation



“The Biggest Hack of 2023 Keeps Getting Bigger” – Wired Magazine





\$100 Million

\$100 Million

Major Brand
Demolished



\$100 Million

\$100 Million



Children Impacted



bad guy statistics

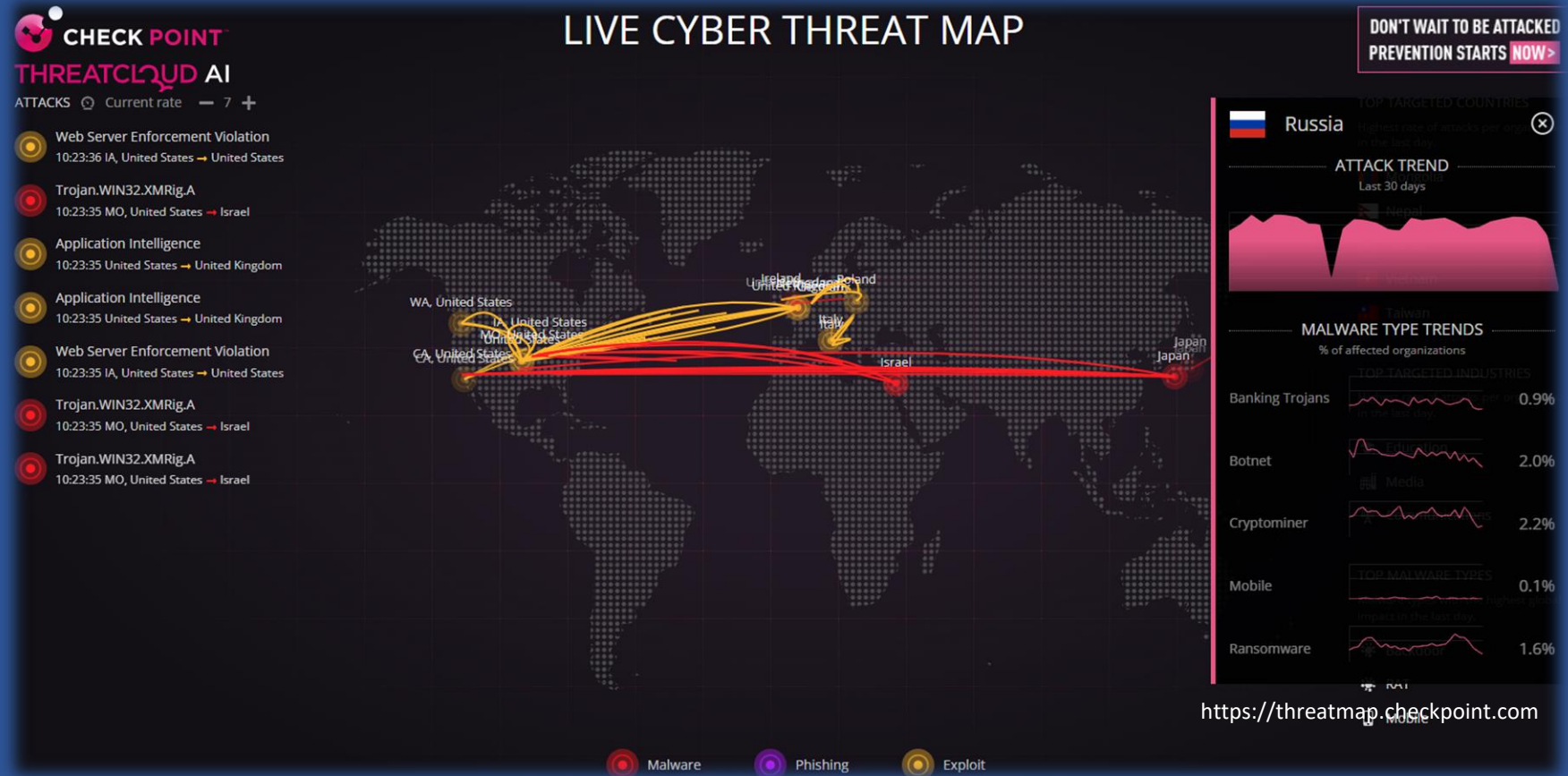
Bad Guys are Everywhere and Have Completely Different Goals

WHO

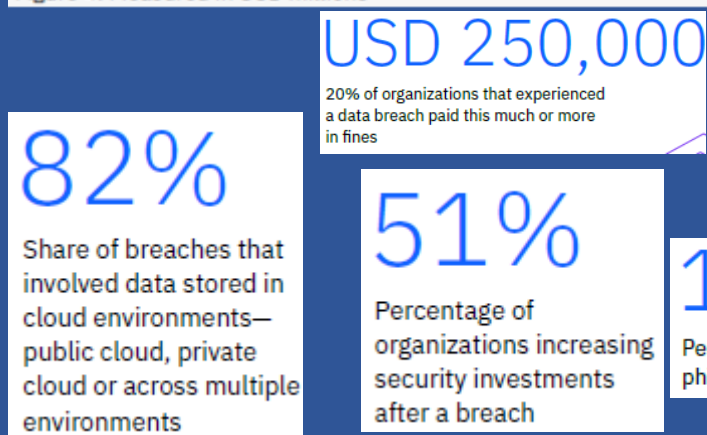
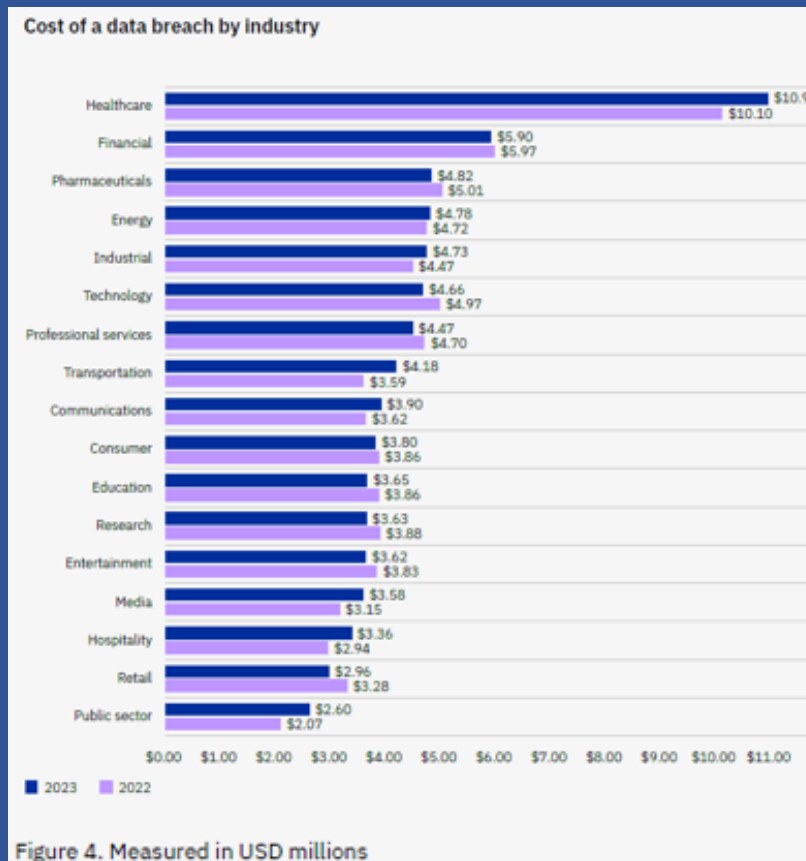
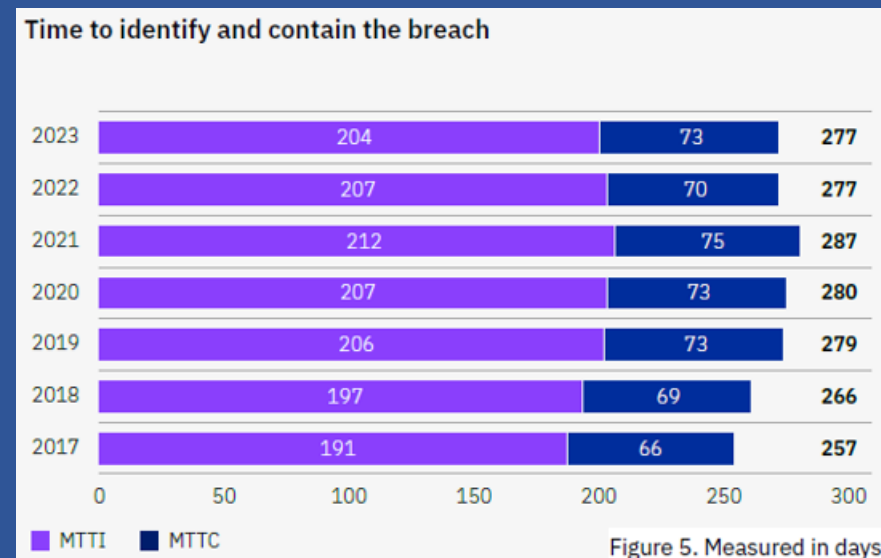
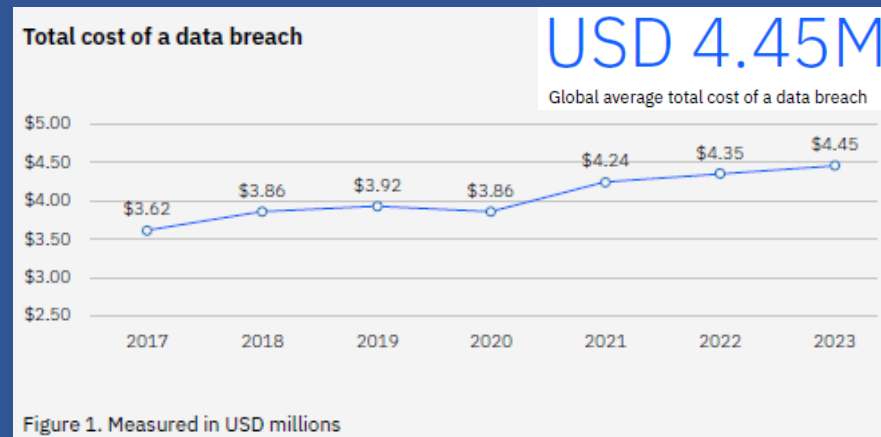
Nation states
Organized crime
Hacktivists
Petty thieves
Vandals
Insider threats

WHAT

Data theft
Extortion
Damage
Embarrass
Punish
Signaling
Shaping
Coercion



Cost of a Data Breach



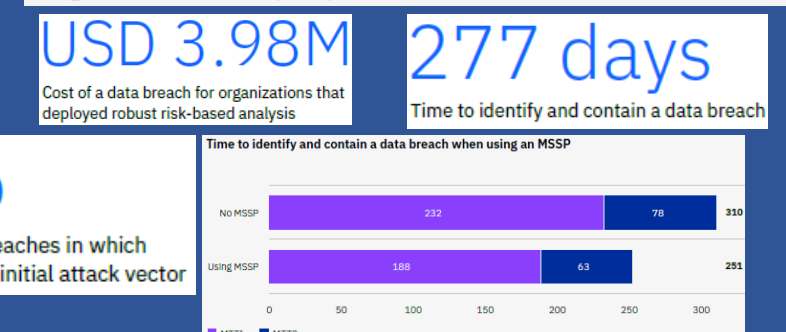
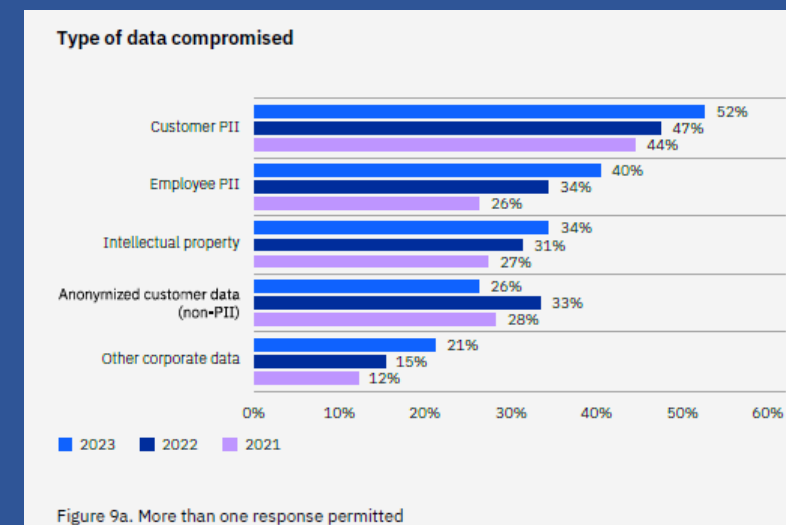
12%

Share of data breaches originated from a software supply chain attack

33%

Only one-third of breaches were identified by the organizations' internal security teams and tools

	2023	2022
1	↑ United States USD 9.48 million	United States USD 9.44 million
2	↑ Middle East USD 8.07 million	Middle East USD 7.46 million
3	↓ Canada USD 5.13 million	Canada USD 5.64 million
4	↓ Germany USD 4.67 million	United Kingdom USD 5.05 million
5	↓ Japan USD 4.52 million	Germany USD 4.85 million



engage and understand

Cyber Security Encompasses Everyone: The C-Suite Must Engage and Stay Involved



Board



CEO



CRO



CPO



CIO



COO



CFO



CISO



CMO

Understand Risk Management and Risk Quantification Inside the Enterprise

People, Property, Information

An **Asset** is what we're trying to protect.

Threat – Anything that can exploit a vulnerability, intentionally or accidentally, and obtain, damage, or destroy an asset.

A **Threat** is what we're trying to protect against.

Vulnerability – Weaknesses or gaps in a security program that can be exploited by threats to gain unauthorized access to an asset.

A **Vulnerability** is a weakness or gap in our protection efforts.

Risk – The potential for loss, damage or destruction of an asset as a result of a threat exploiting a vulnerability.

Risk is the intersection of assets, threats, and vulnerabilities.



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Is This a Risk or a Threat



This is a Threat



Countless Risks Exist in Cyber Security – How to Ensure Coverage

Insider Threat
Data Leakage
Phishing
Access Management
Ransomware
Worms
Trojans
Key Loggers
Data Breach
Version Control
Third Parties
Cloud Abuse
Insecure Software
Man In The Middle
Patch Management

Denial of Service
Passwords
Biometric Compromise
Threat Vectors
Network Penetration
Lateral Movement
Privilege Escalation
Impersonation
Social Engineering
Shoulder Surfing
Dumpster Diving
Tailgating
Shadow IT Systems
Clear Text



level up cyber security throughout
the organization

Who Owns What, Who Does What, Who Knows What

Governance = Leadership

Engage

Listen

Decide

Delegate

Follow Up

Track

Shift as Necessary

Reward

Act and Keep Acting



Relationship
Manager

Vendor
Manager

Project
Manager

Account
Manager

Team Lead

Executives

Partner

Project Lead

Identify and Understand Those Responsible, Accountable, Supporting, Consulted and Informed (RASCI)

Phase	Task Description	Role							Client
		DevOps	System Integration	Deployment	MSIEM	Cloud Operations	Application Support	Hardware Support	
	Provision, install, and initially configure (IP address, connectivity, etc.) the SIEM SaaS System	R, A	S	C		S	C		I
	Once able to remotely connect, take over the configuration of the SIEM SaaS System and customize it based on Client requirements, including Log Source integration, Use Case implementation, Dashboard customization, Offense Manager, and reporting.	I	R, A	C, I			C, I		C, I
	Installation of licenses on the SIEM console	R, A	I	C, I			I		
	Installation of SIEM apps that require admin access to the SIEM console	I	R, A	C, I			C, I		
	Allowing app access to specific user roles	R	I	A			I		
	Installation of service token for apps	A, I	R	C, I			I		
	Download, install, and configure all Client-premise Data Gateways and/or install physical Event Collector appliances and configure as Data Gateways.	I	R, A				I		



Task	Vendor Mgmt	Executive Sponsor	Business Owner	Legal	IT & Info Sec
Identify standard terms & conditions for contract	C	-	R/A	C	C
Negotiate contract	C	C	R/A	C	-
Review final draft against standards	C	C	C	R/A	C
Execute contract	I	R/A	I	I	I
Store contract in contract management system	R/A	-	I	-	-
Assign contract owner	R/A	I	I	I	I
Integrate new vendor through onboarding process	C	I	R/A	-	C

Understand Legal Requirements and Comply(ance)



California Consumer Protection Act (CCPA)

General Data Protection Regulation (GDPR)

Defense Federal Acquisition Regulation (DFARS)

Payment Card Industry Data Security Standard (PCI-DSS)

Health Insurance Portability and Accountability Act (HIPAA)

Sarbanes-Oxley (SOX)

Federal Trade Commission Act §5

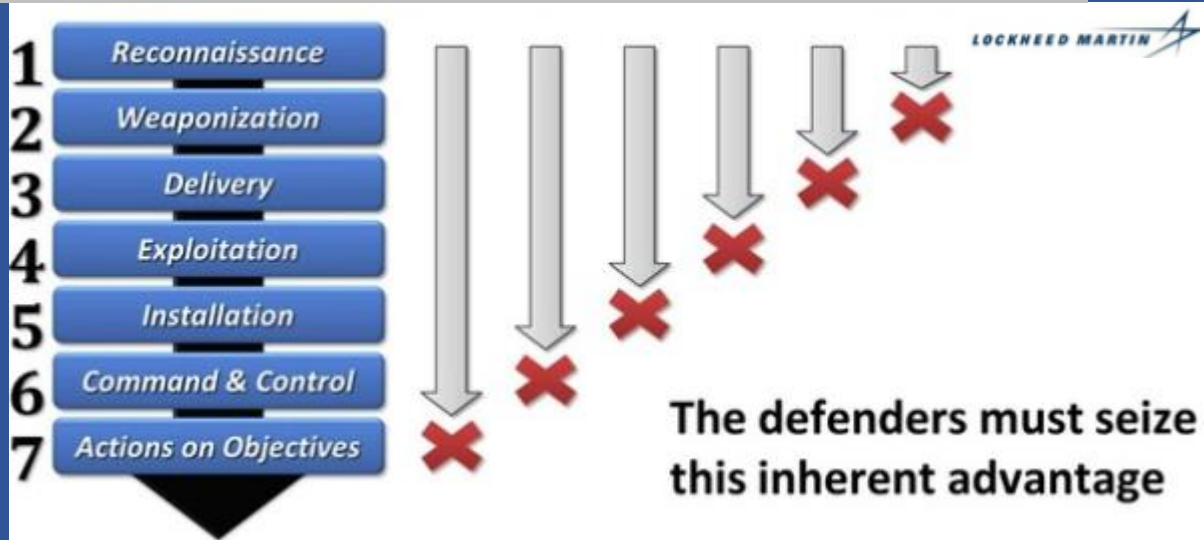
Gramm-Leach-Bliley Act (GLBA)

Children's Online Privacy
Protection Act (COPPA)



Standards and Frameworks to the Rescue in a Complex Arena

Just one mitigation breaks the chain

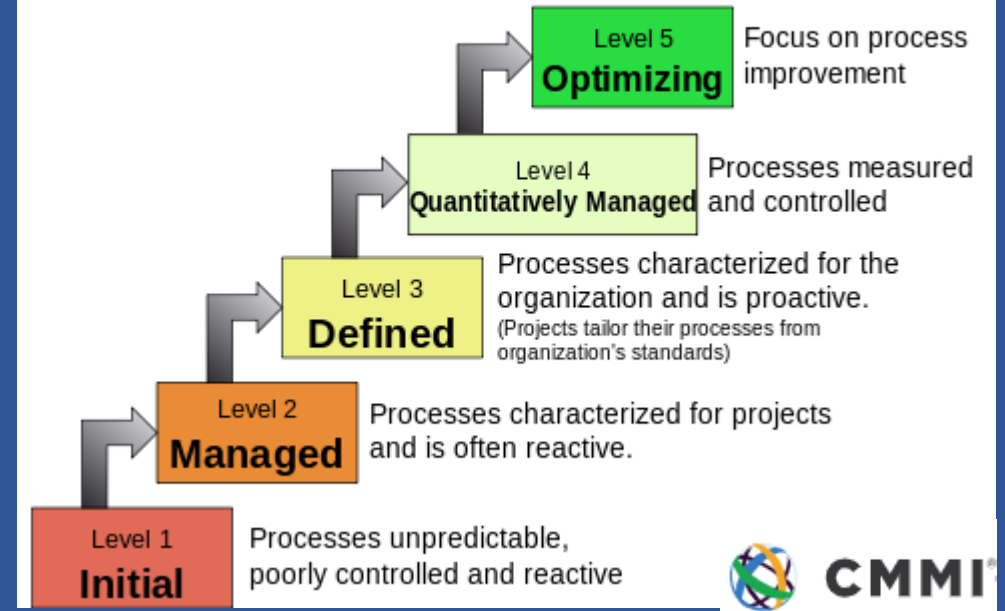


MITRE | ATT&CK®

MITRE ATT&CK® is a globally-accessible knowledge base of adversary tactics and techniques based on real-world observations



Characteristics of the Maturity levels



SEC Adopts Rules on Cybersecurity Risk Management, Strategy, Governance, and Incident Disclosure by Public Companies - 2024



ISO is an independent, international NGO with a membership of 165 national standards bodies. ISO has developed over 23400 International Standards .

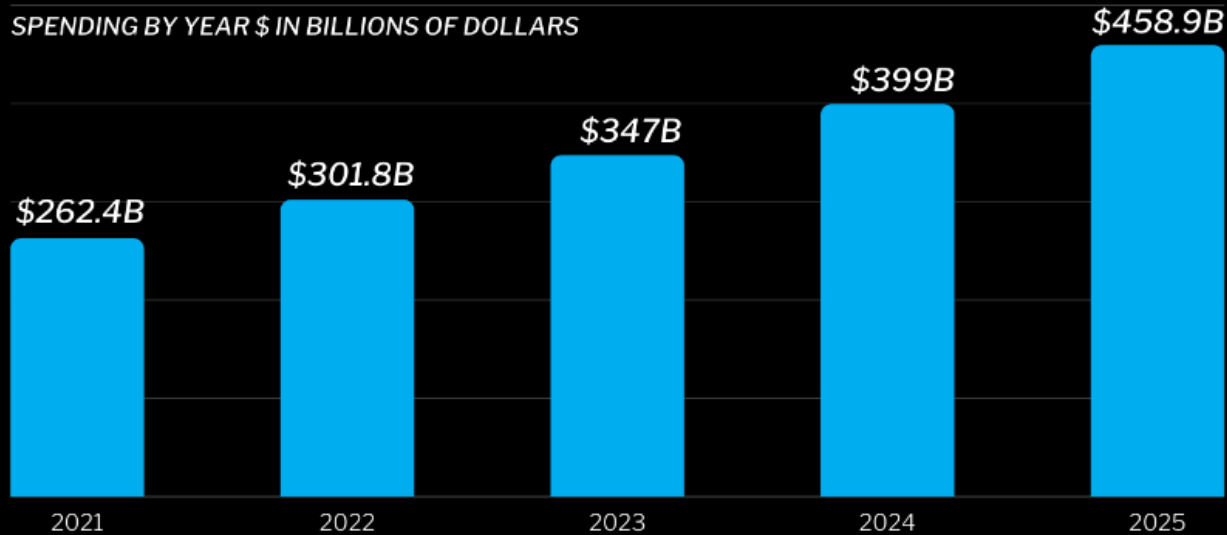
conclusion: go forward with solutions that
make a difference

Take a Giant Step Forward in the Cyber Security Journey

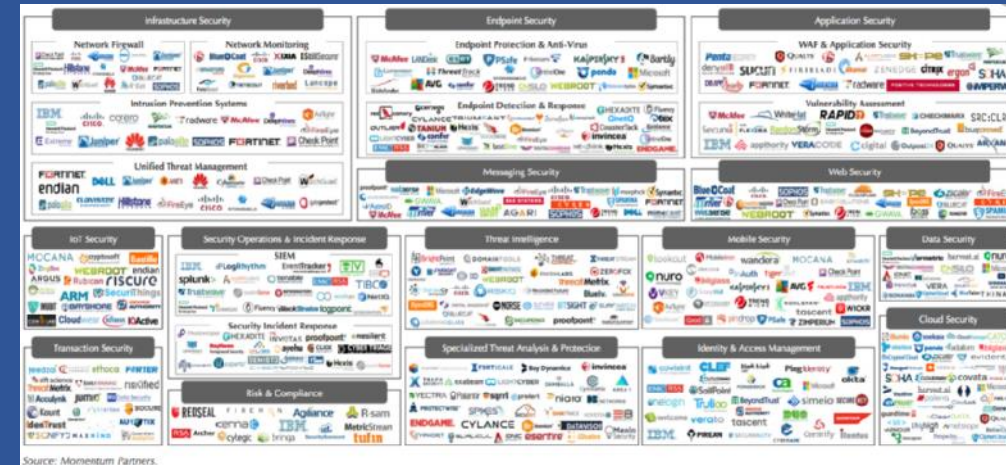


GLOBAL CYBERSECURITY SPENDING \$1.75 TRILLION CUMULATIVELY 2021 TO 2025

SPENDING BY YEAR \$ IN BILLIONS OF DOLLARS



Businesses Must Understand Technology and NOT be Driven by Technology – Focus on the *Problems at Hand*



Mis-Aligned
Undigestible
Incomplete
Burn-out
Unnecessary

Overwhelming
Incompatible
Too Complex
Unmanageable
Redundant

CYBER SECURITY TRAINING



Organization Wide, Organization Deep

[Silent Breach](#)

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thank you