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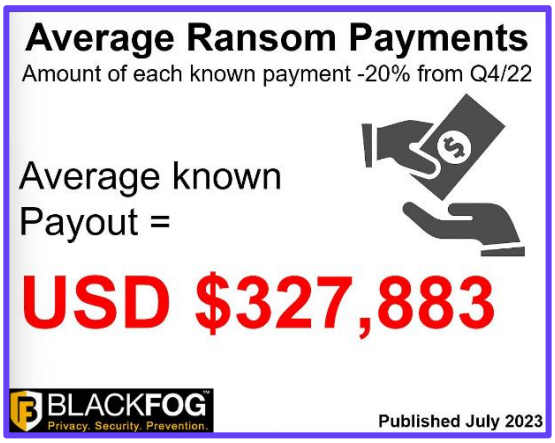

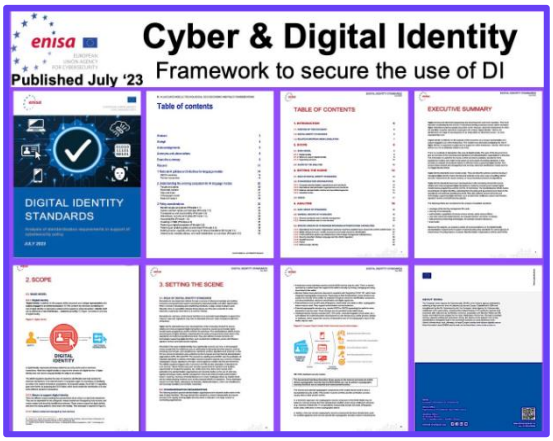

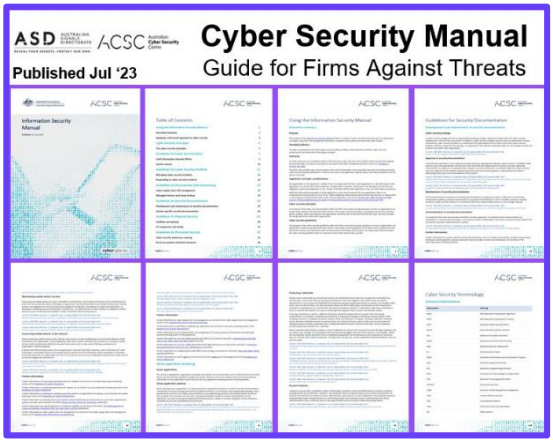

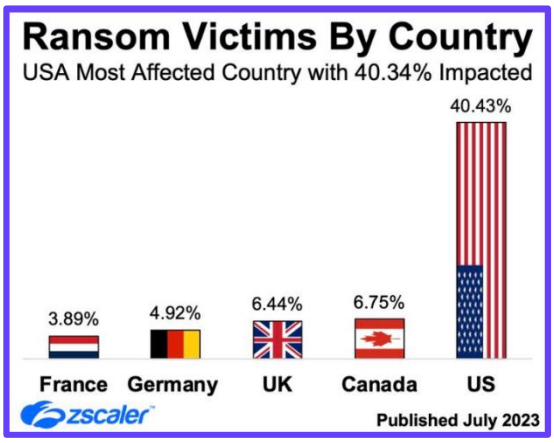

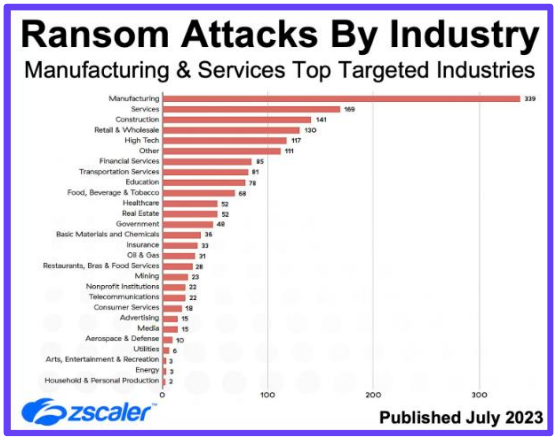

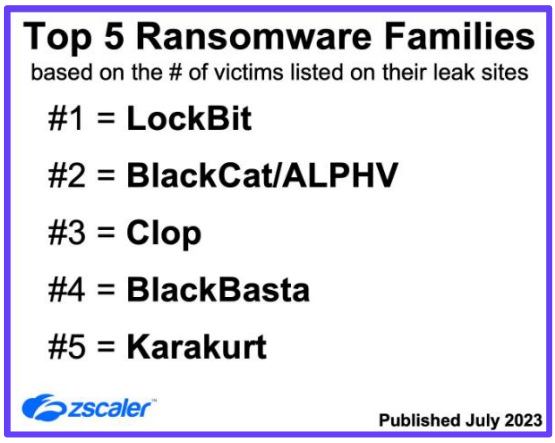

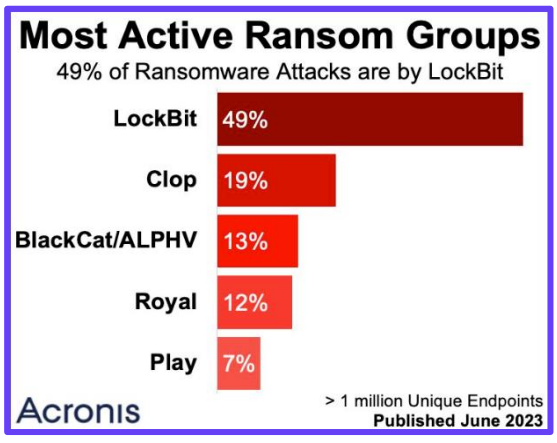

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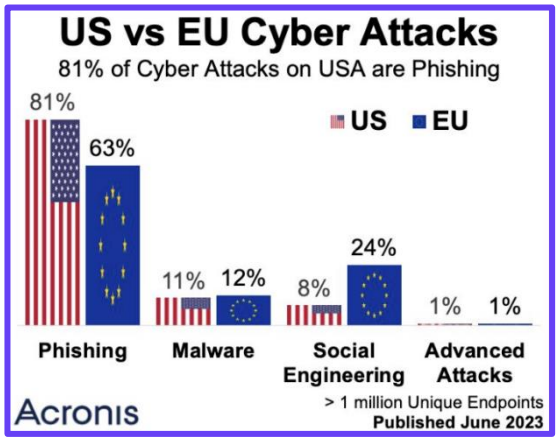

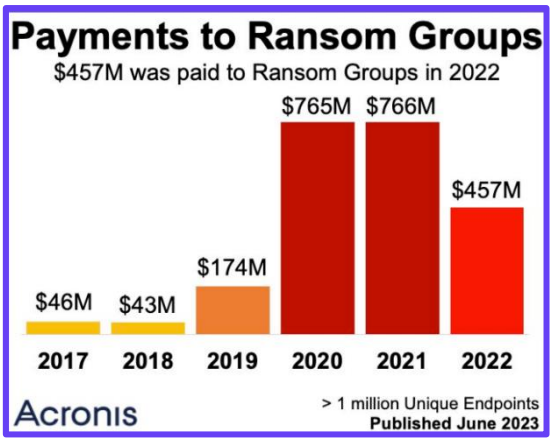

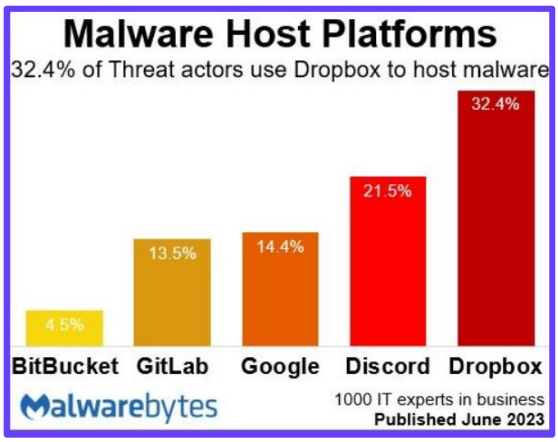

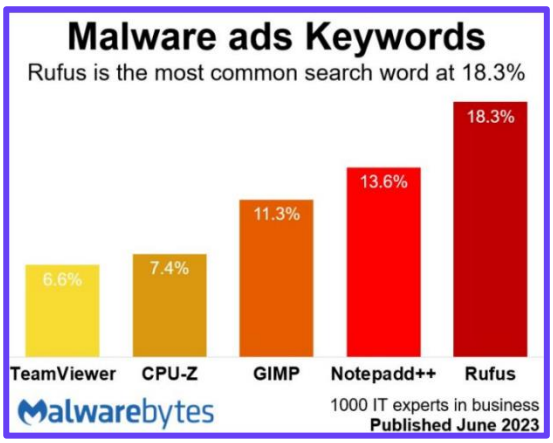

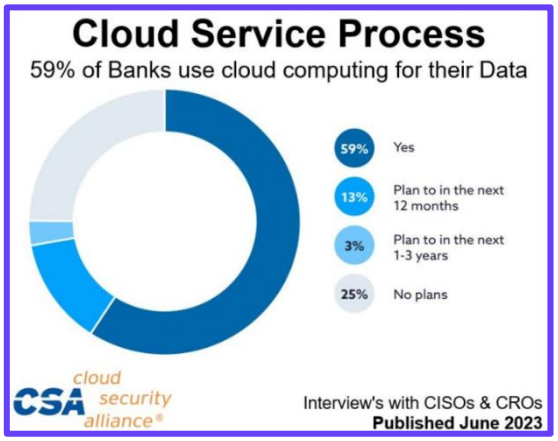

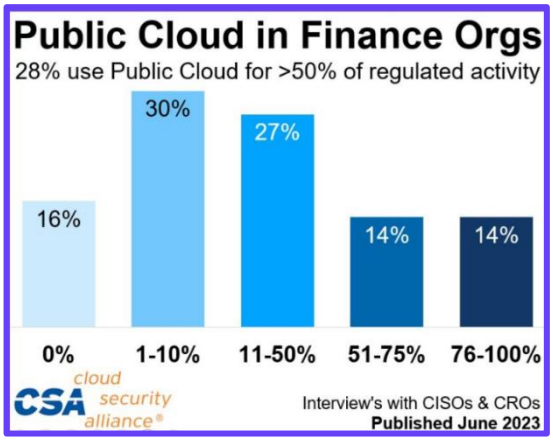

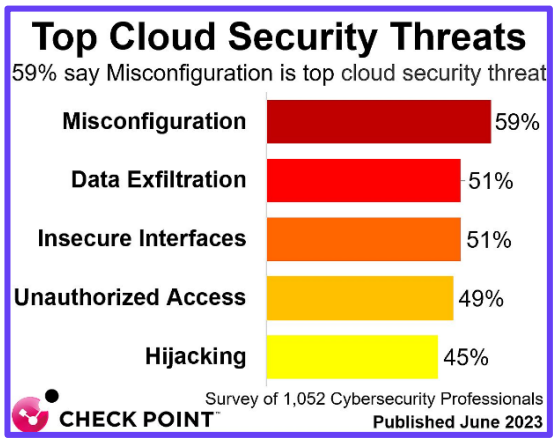

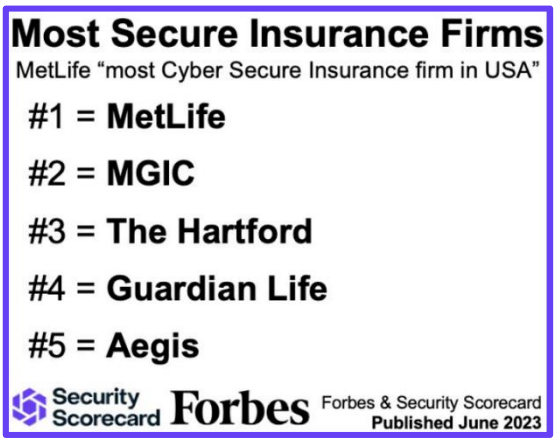

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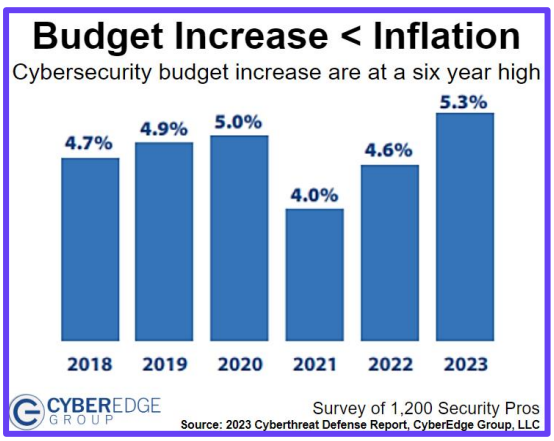

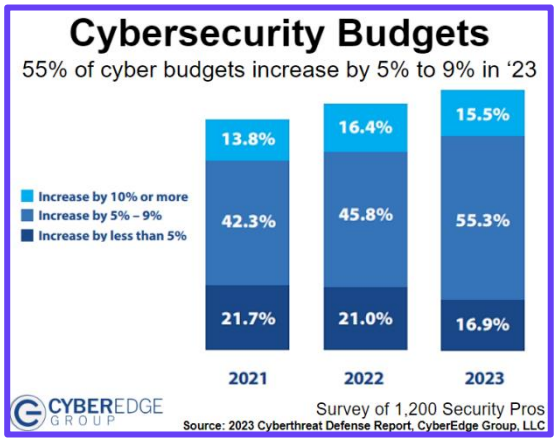

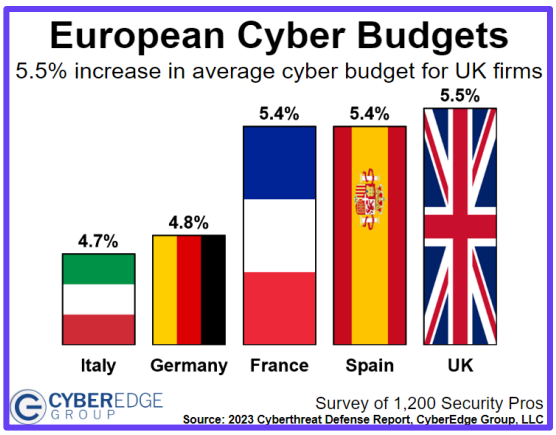

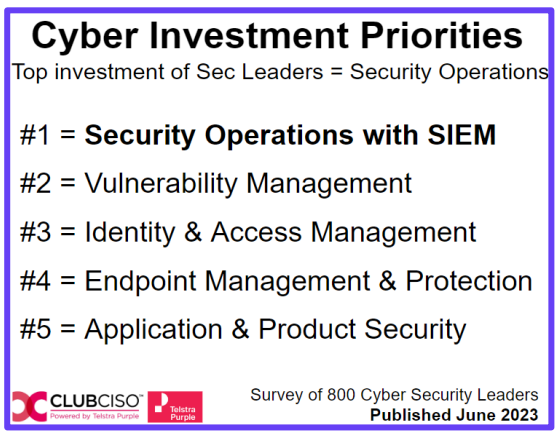

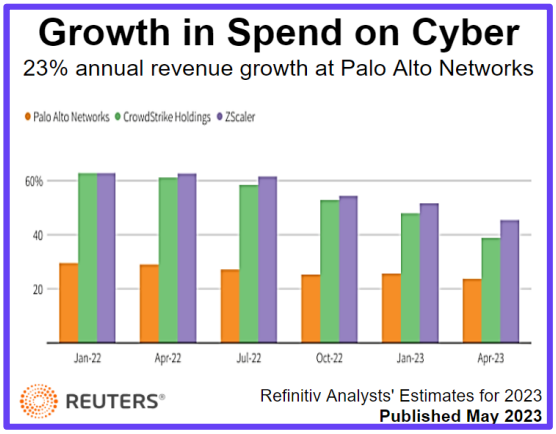

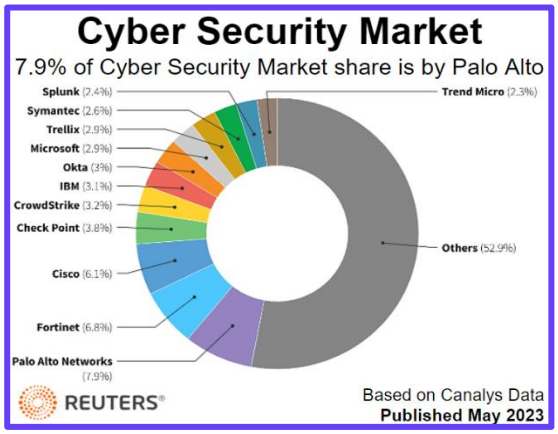

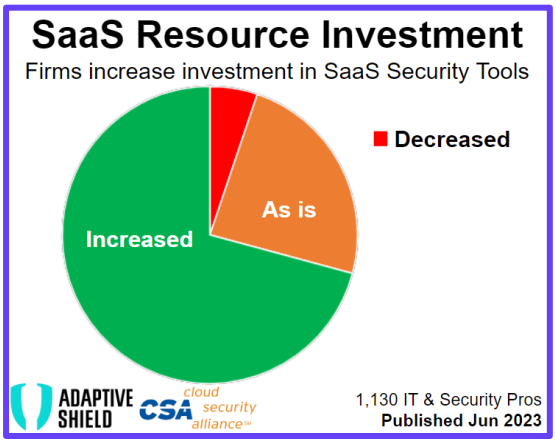

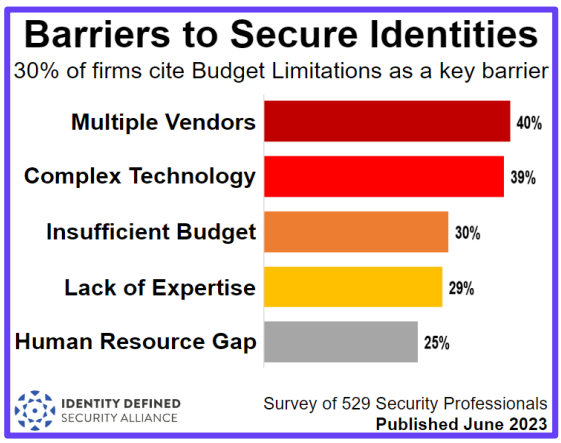

Cyber Insights: *Ransomware Numbers*

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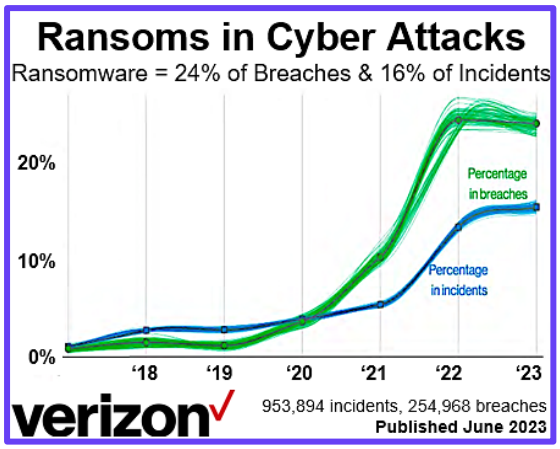

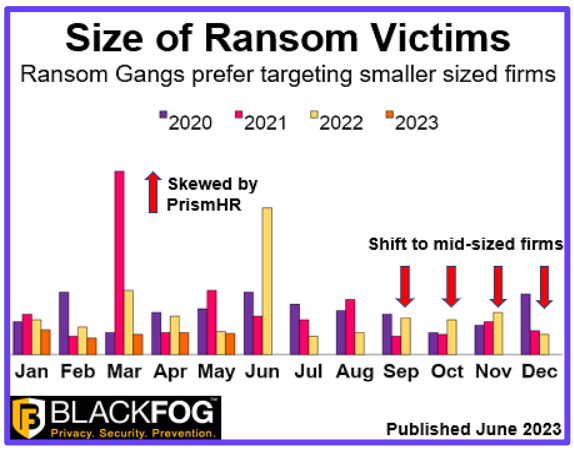

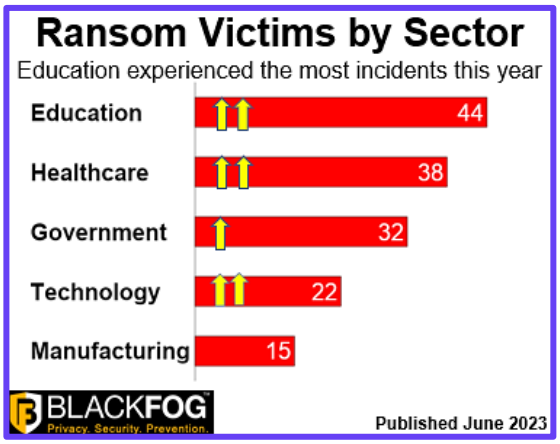

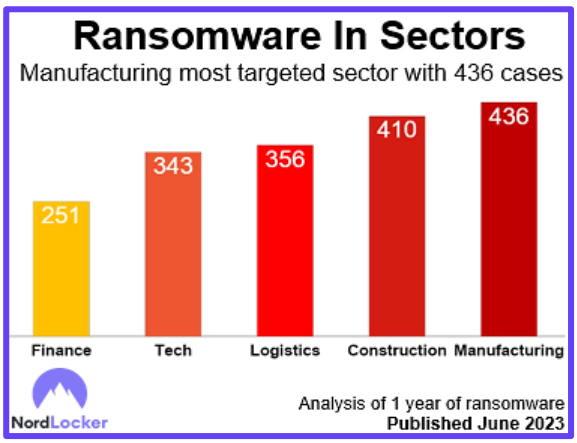

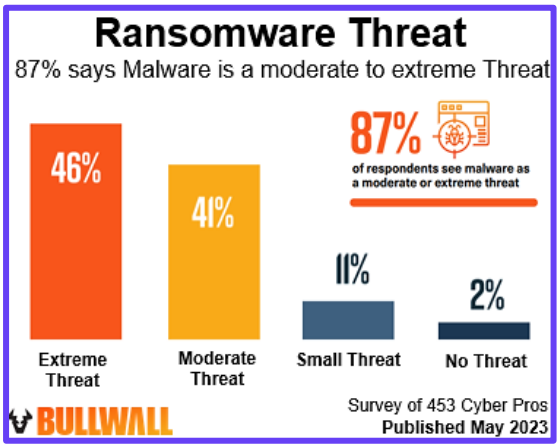

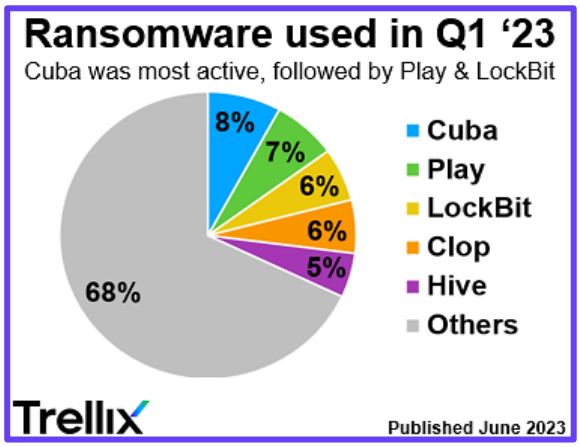

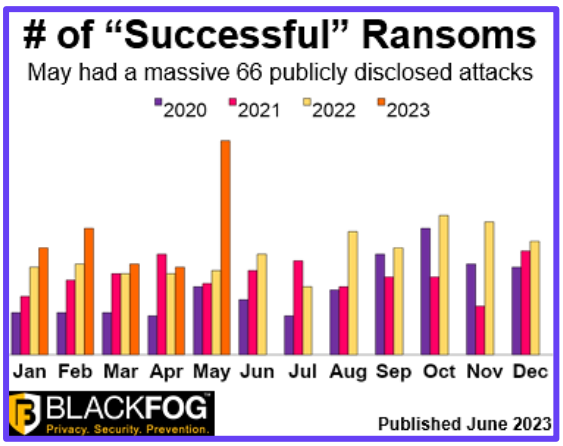

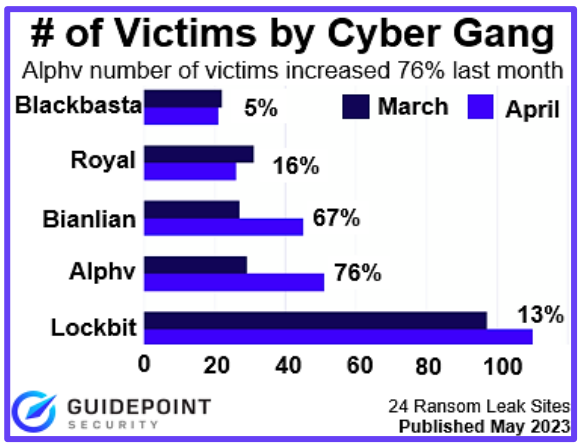

Cyber Insights: *Threat Landscape*

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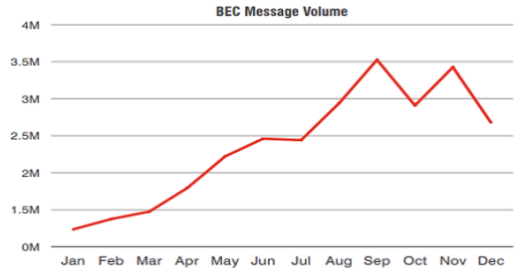
Cyber Threat Landscape

3.5M of Business Email Compromised in September



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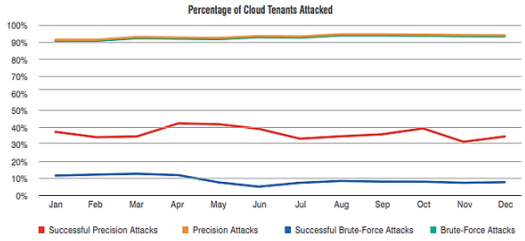
Cyber Threat Landscape

98% of Cloud Tenants targeted by Precision



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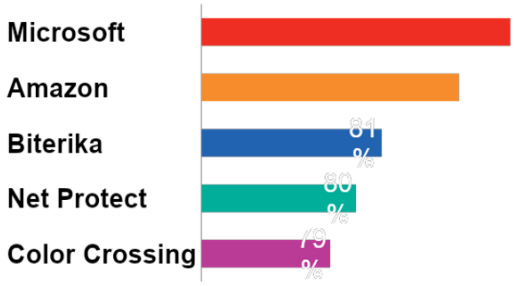
Cyber Threat Landscape

86% brute-force attacks victims use Microsoft



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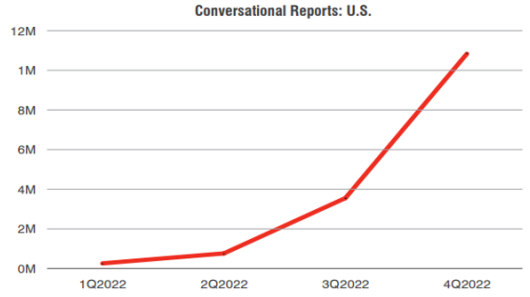
Cyber Threat Landscape

Increasing trend in number of Conversational Attacks



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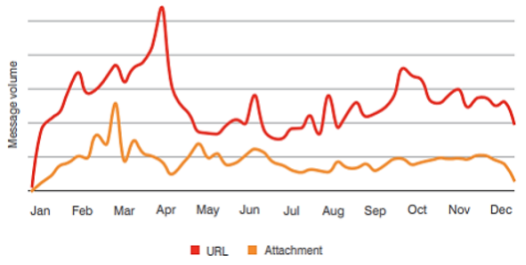
Cyber Threat Landscape

URLs accounted three quarters of all threats overall



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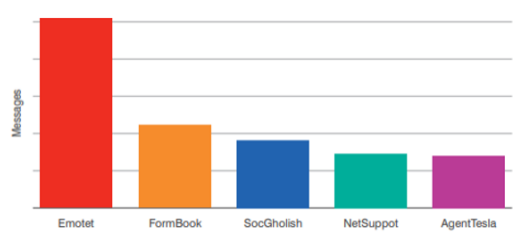
Cyber Threat Landscape

Emotet is the leading choice of Malware



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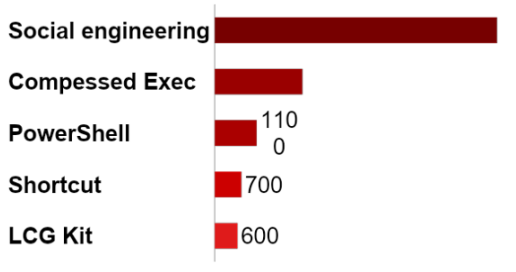
Cyber Threat Landscape

Social Engineering is the most used technique



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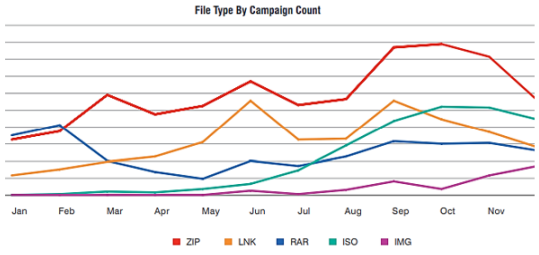
Cyber Threat Landscape

Zip files leading choice for Malware delivery



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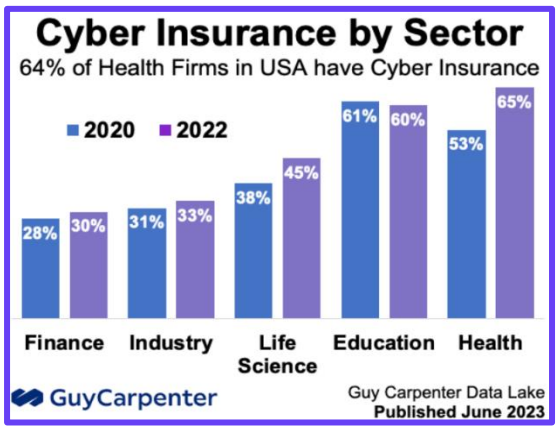

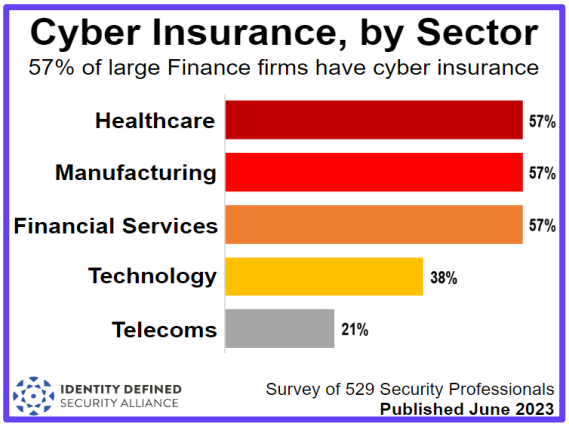

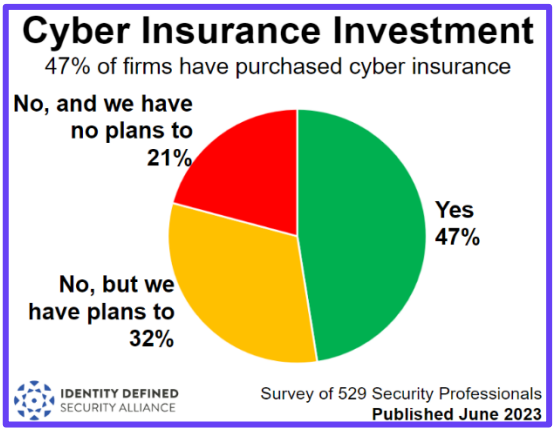

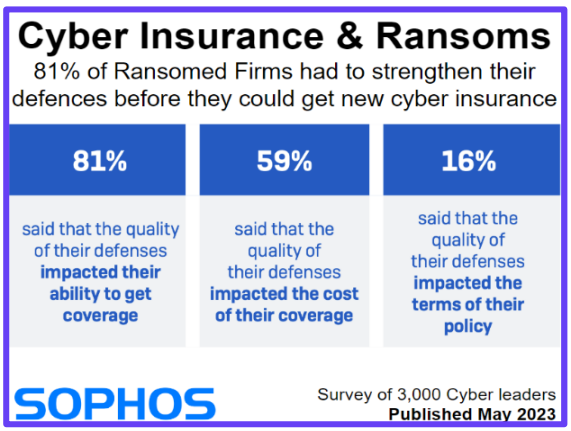

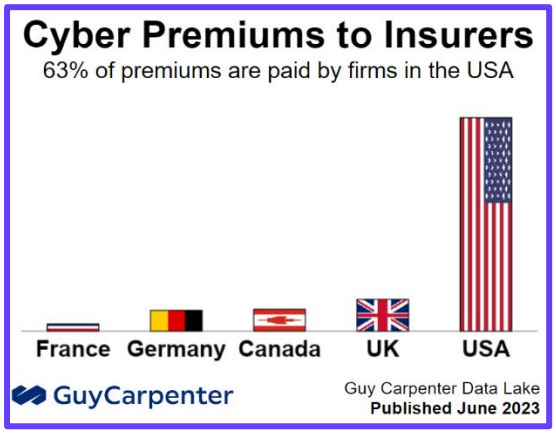

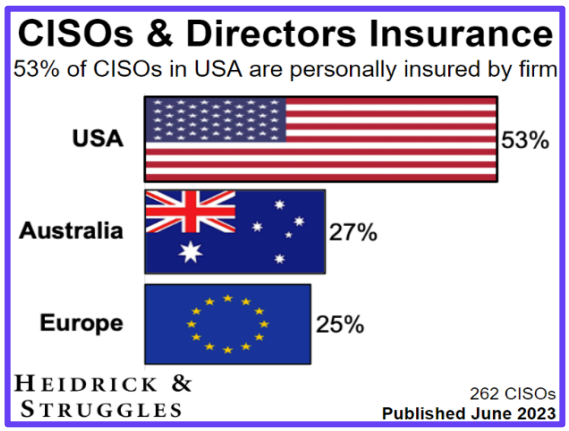

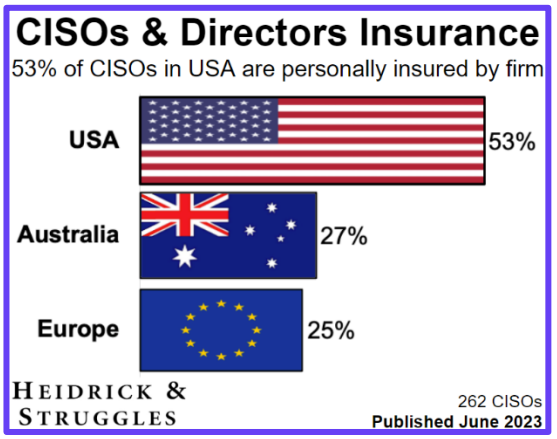

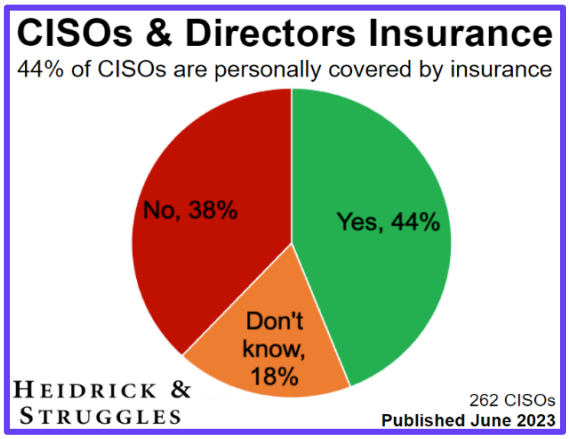

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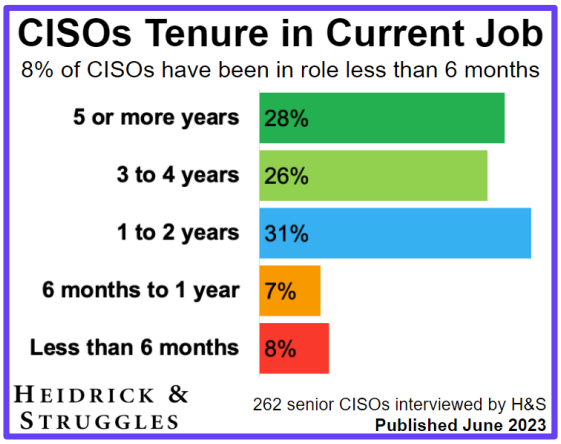

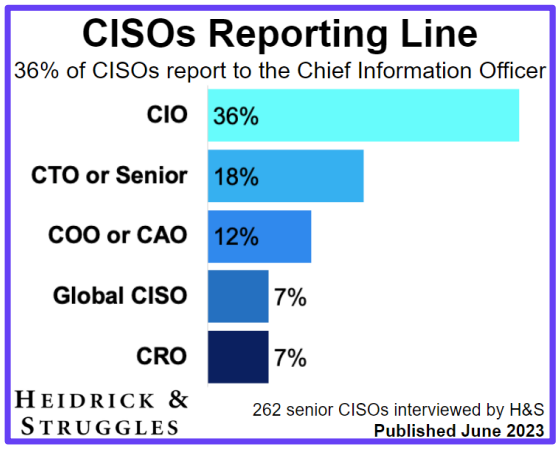

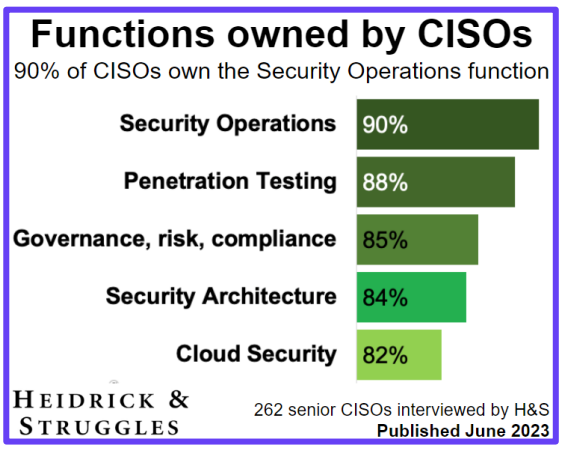

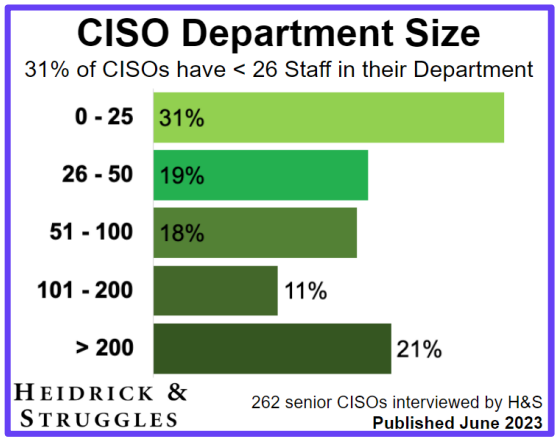

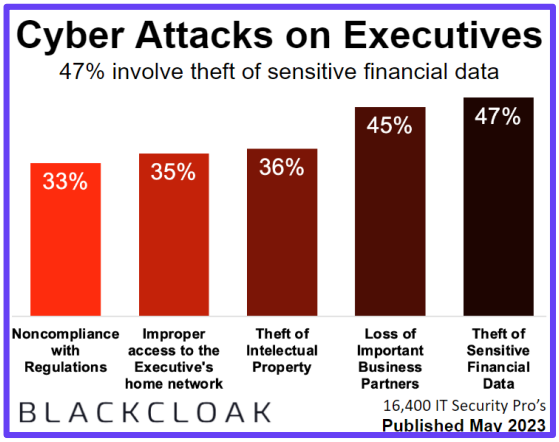

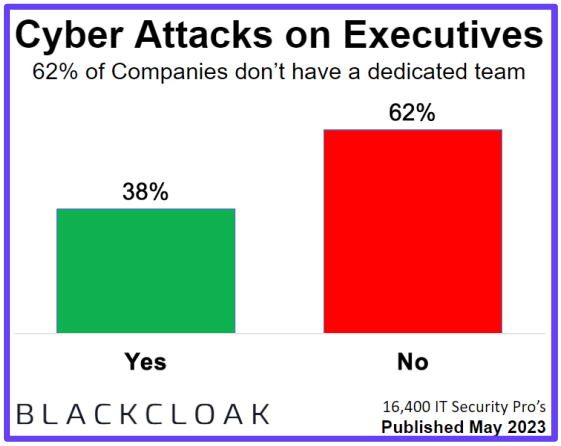

Cyber Insights: *CISOs Challenges*

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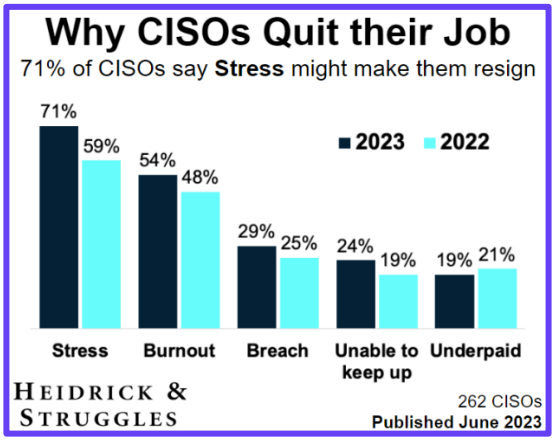

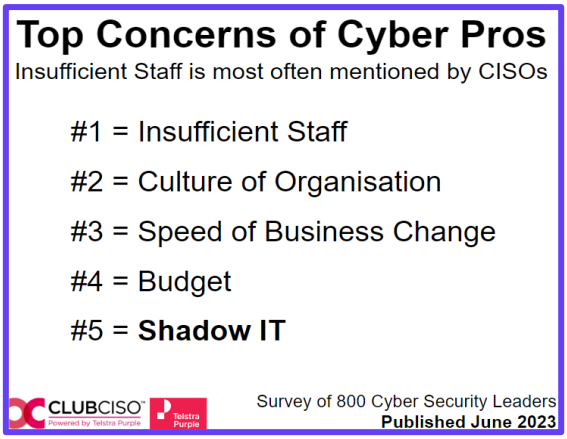

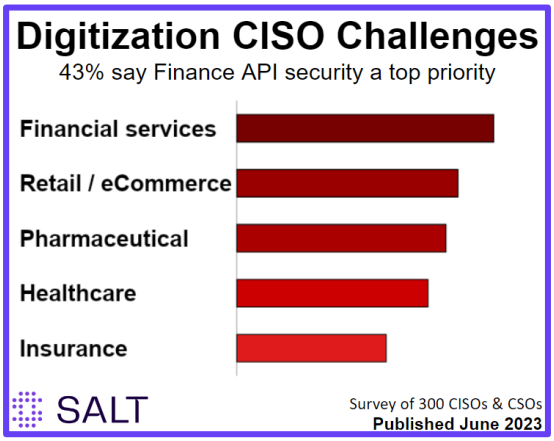

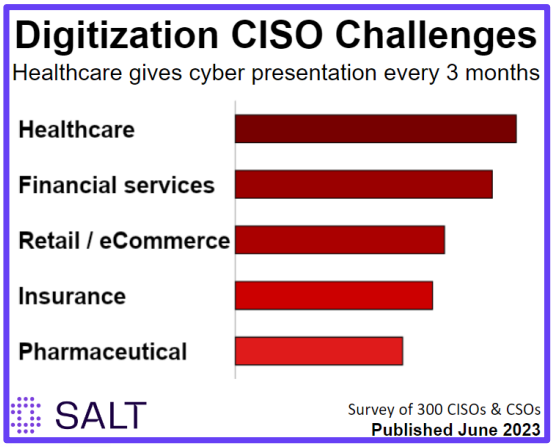

Cyber Insights: *Ransomware Insights*

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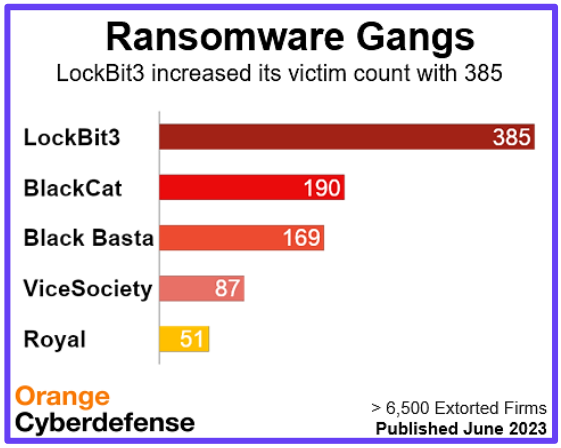

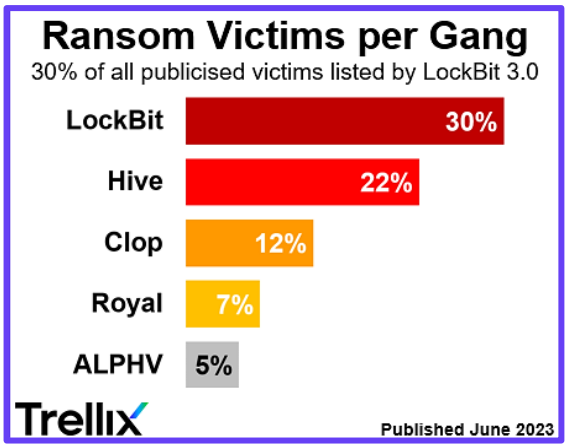

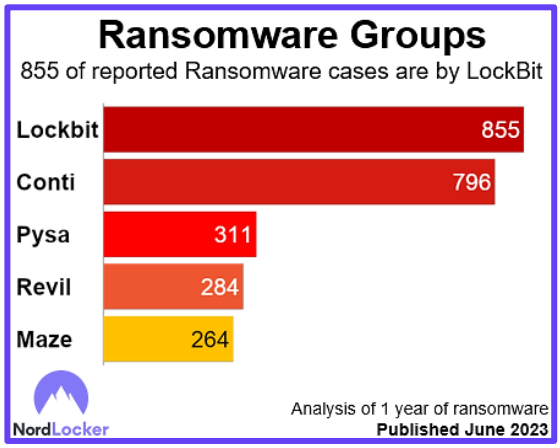

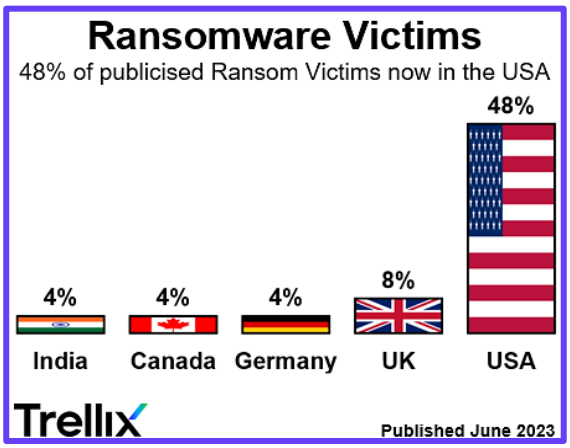

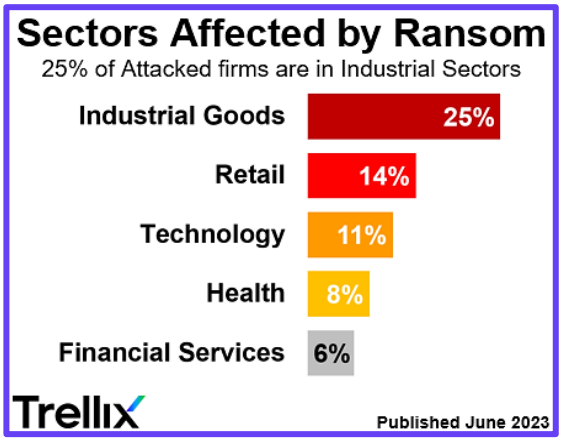

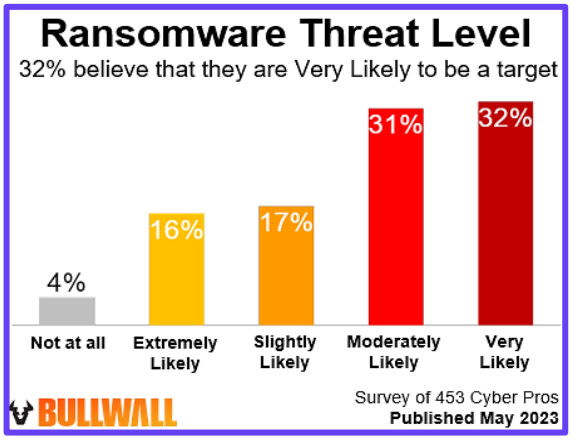

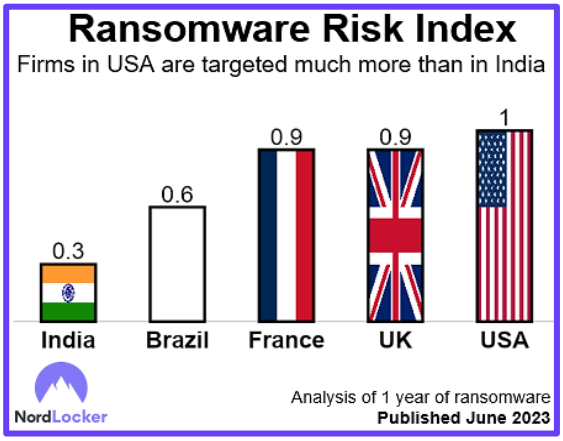

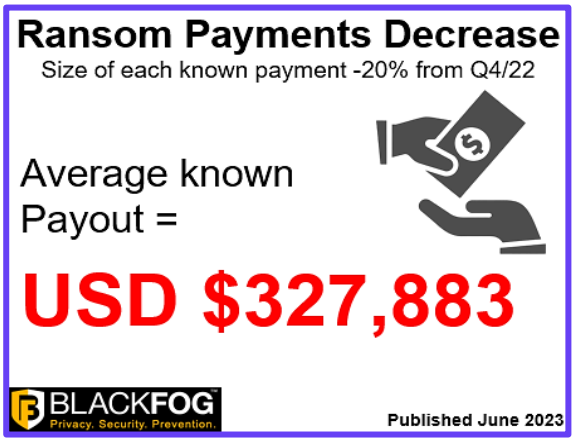

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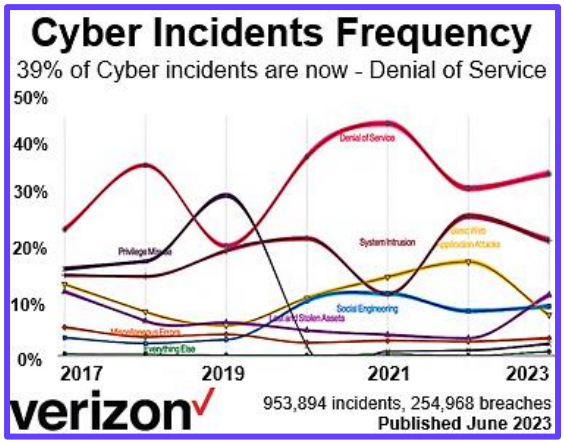

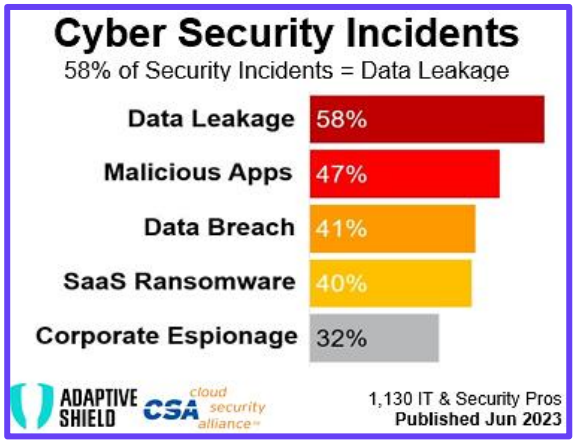

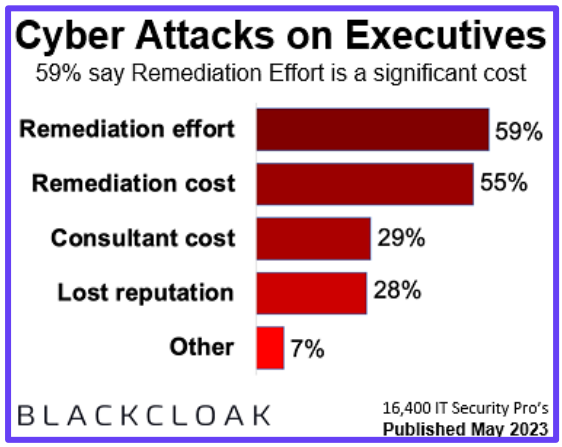

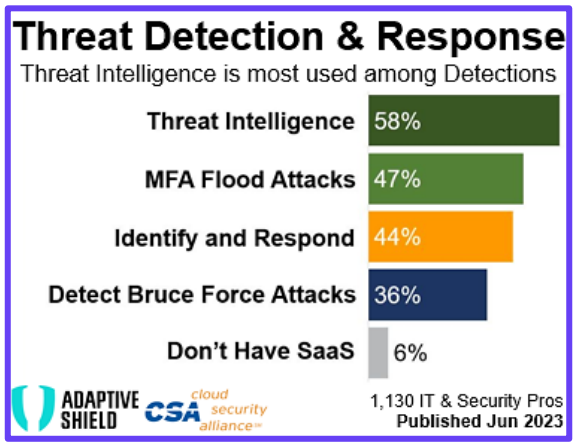

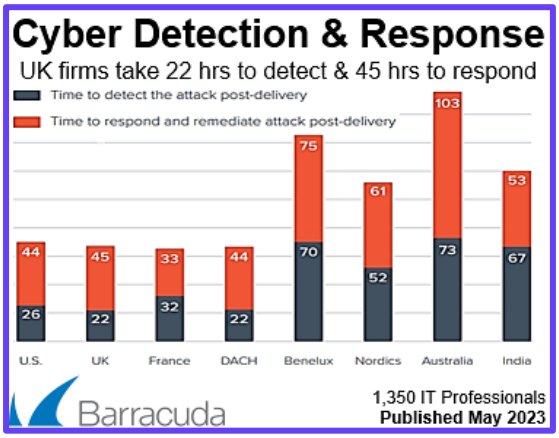

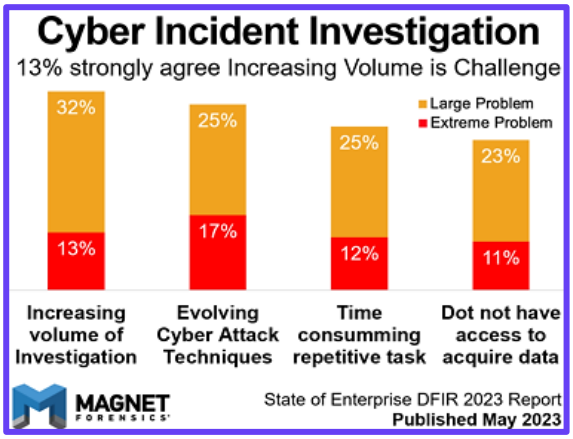

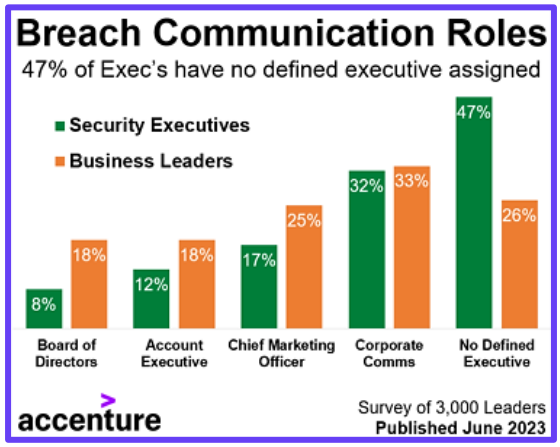

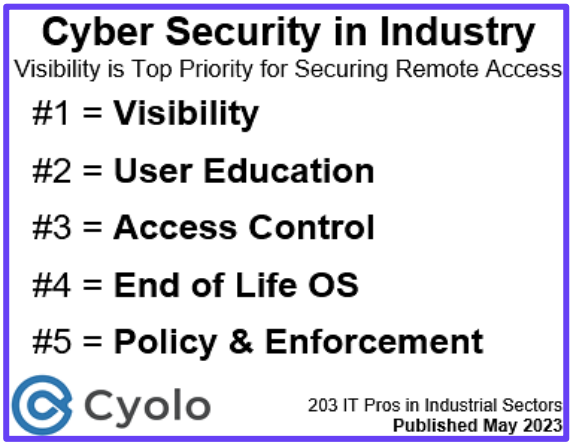

Cyber Insights: *Cyber Risk Management*

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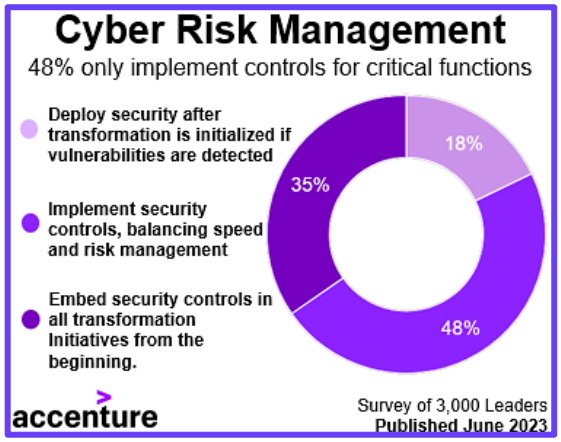

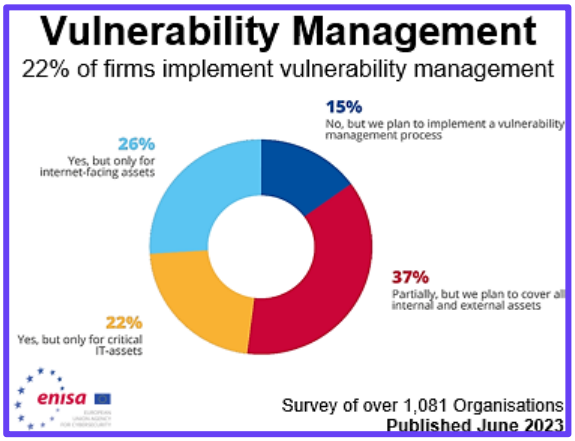

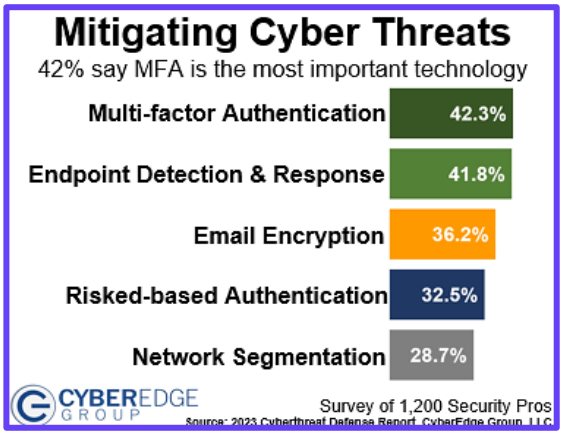

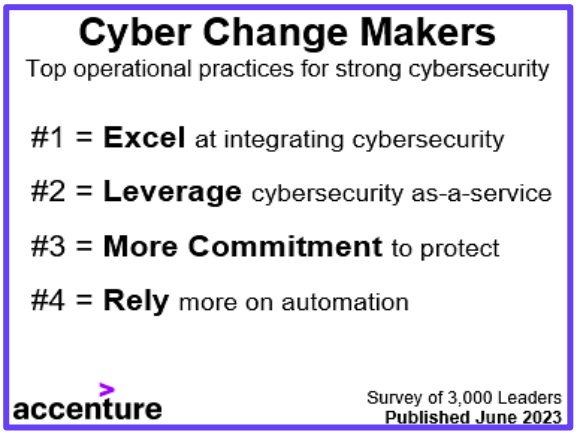

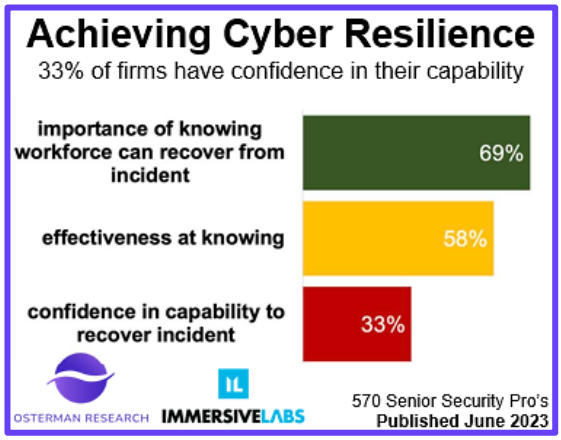

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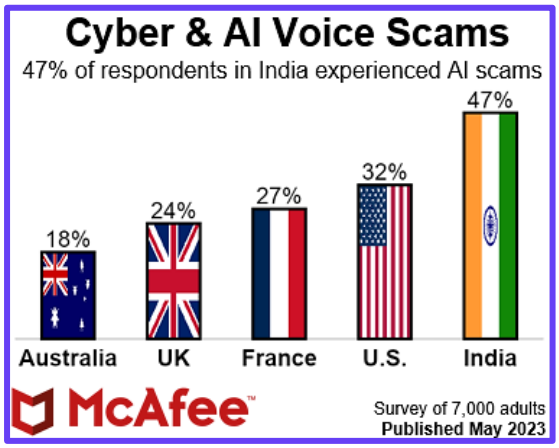

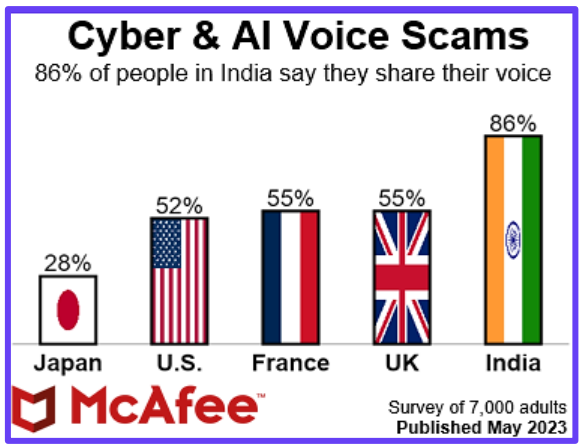

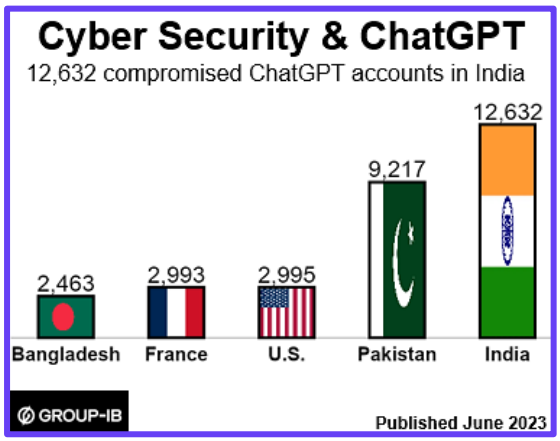

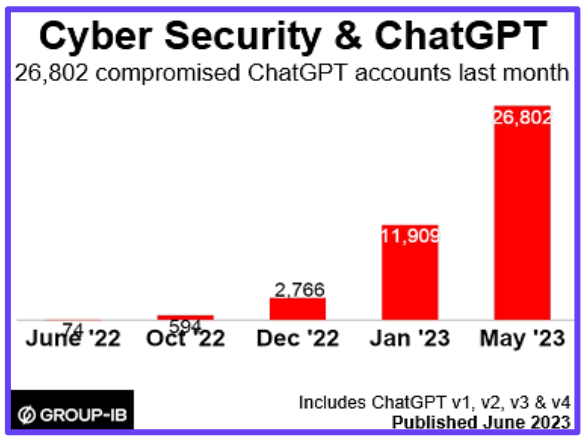

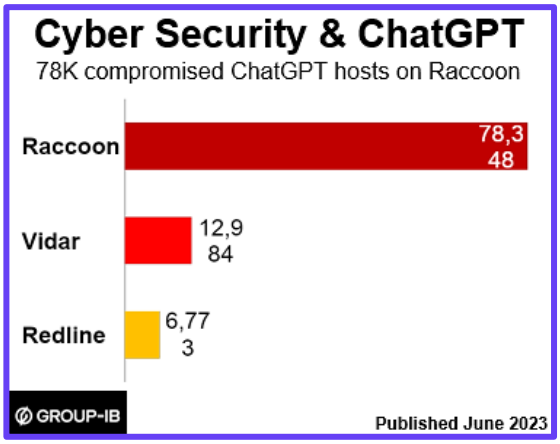

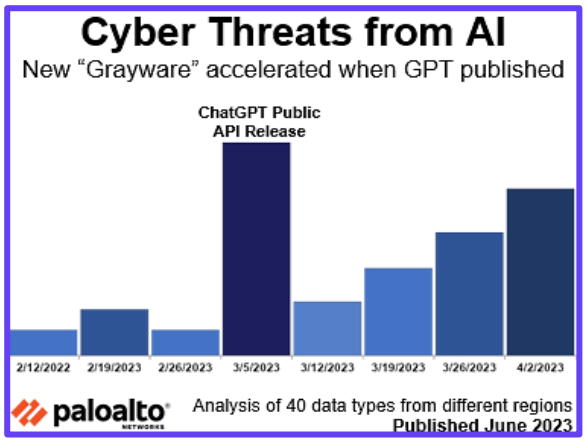

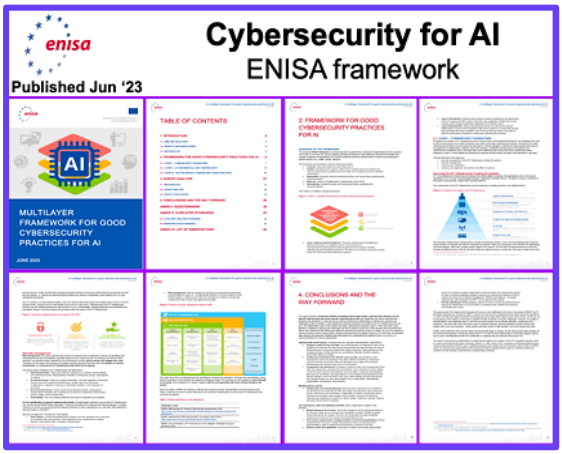

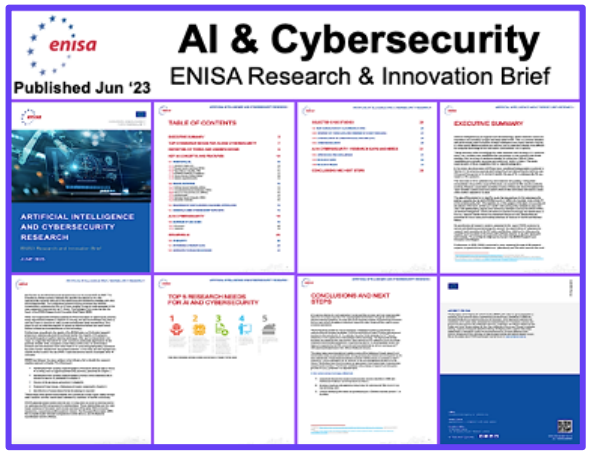

Cyber Insights: *Cloud Security*

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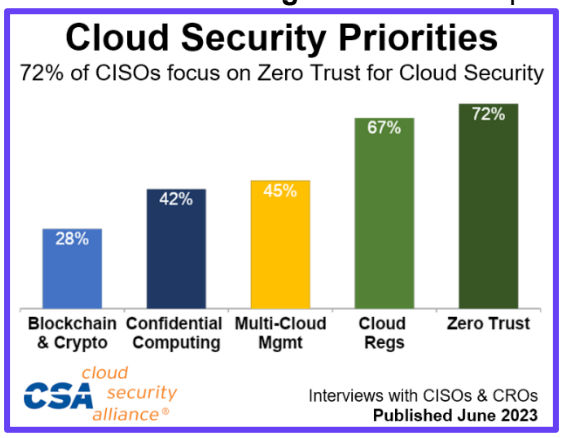

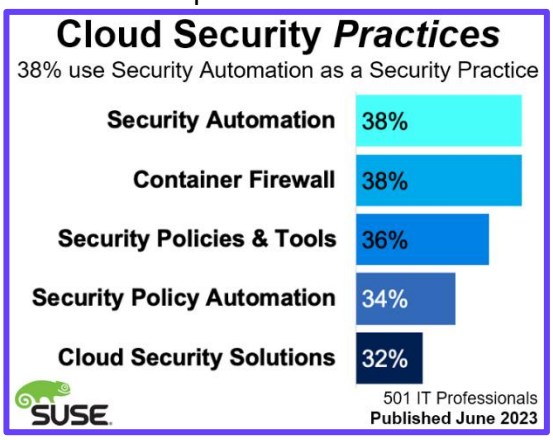

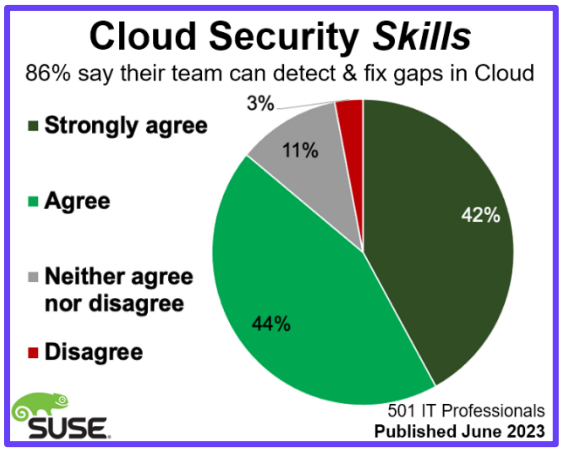

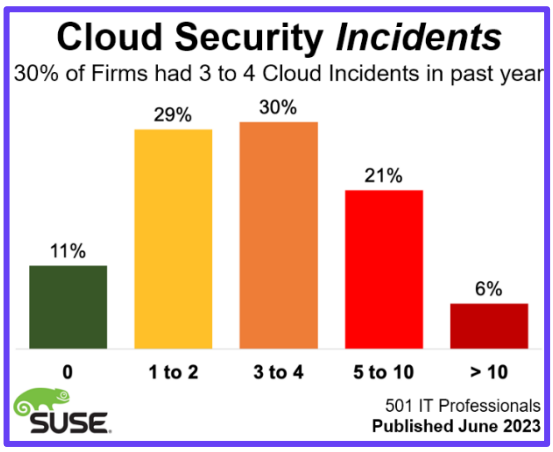

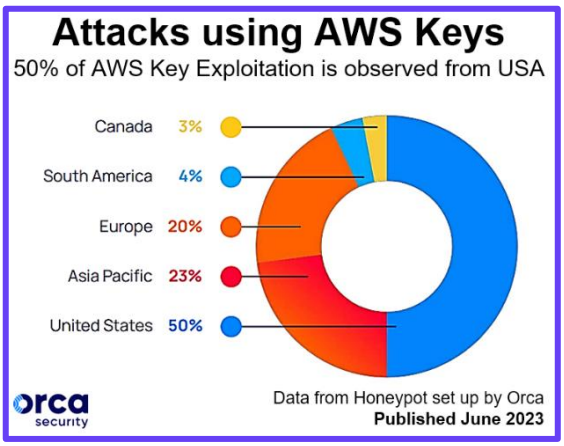

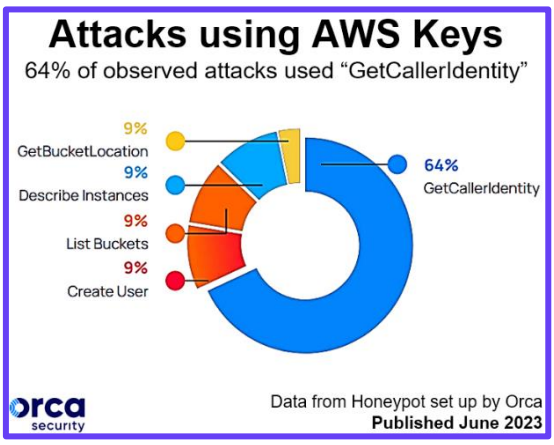

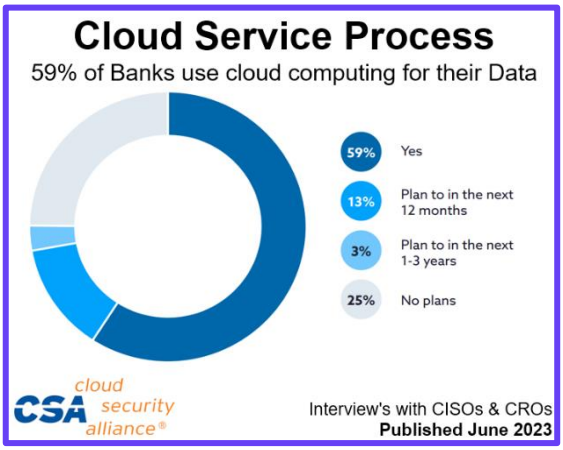

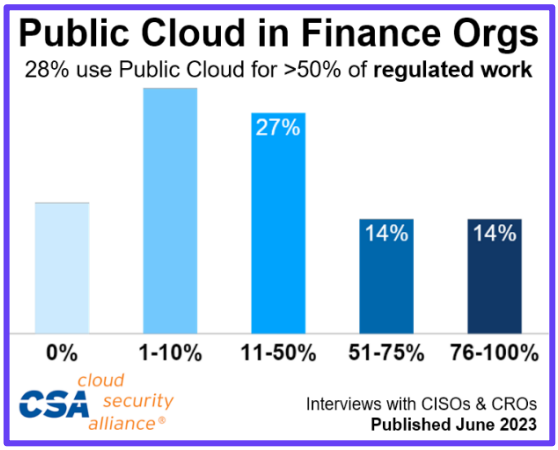

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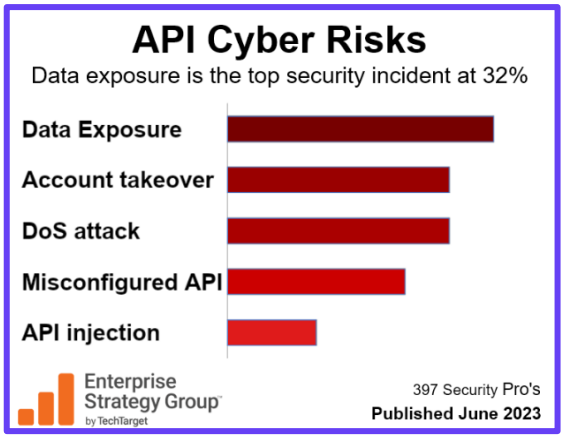

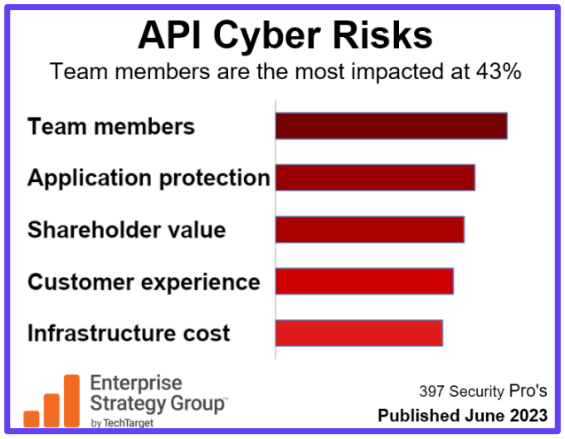

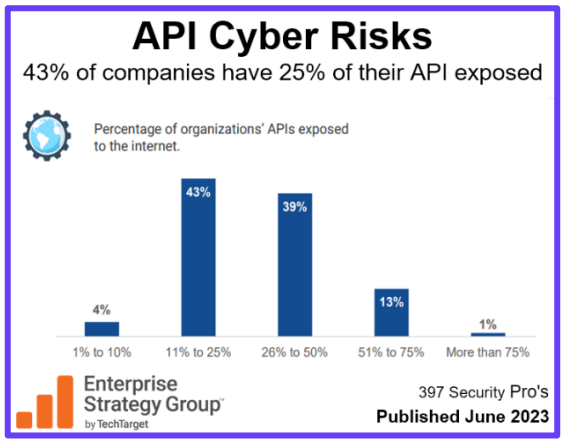

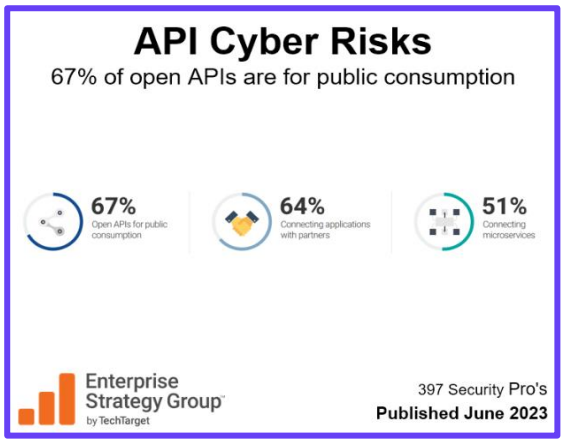

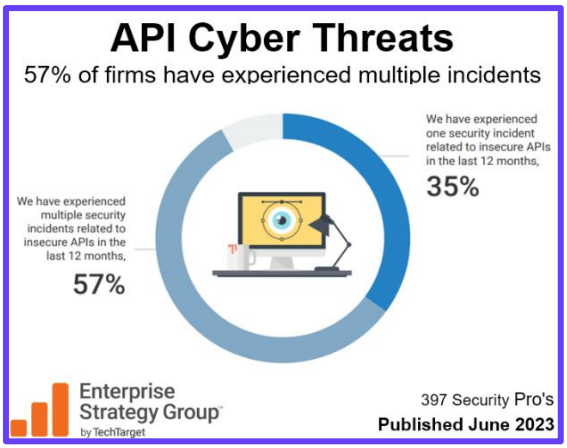

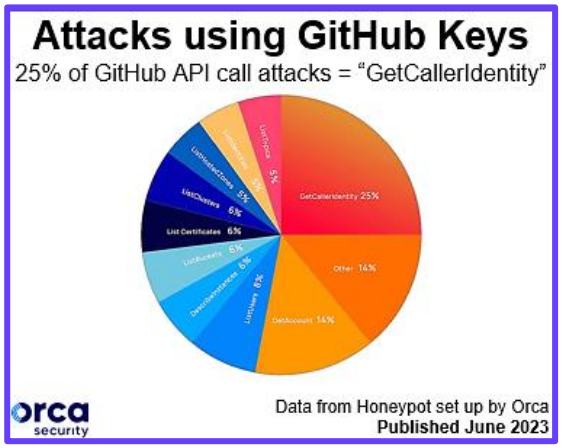

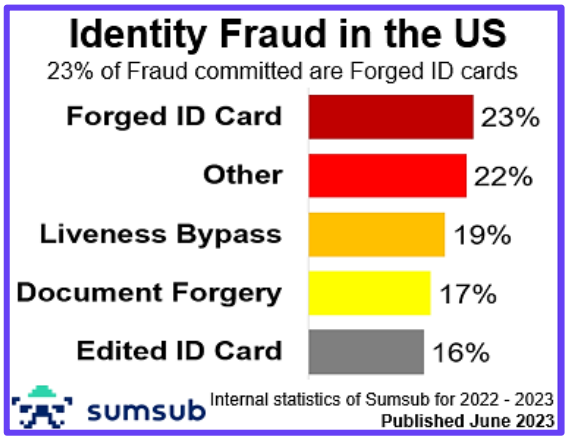

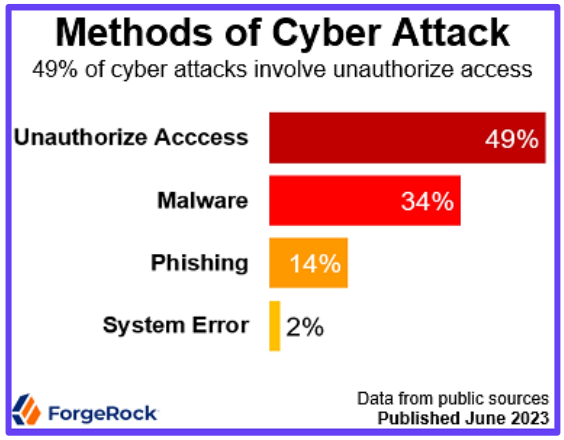

Cyber Insights: *Third Party Risks*

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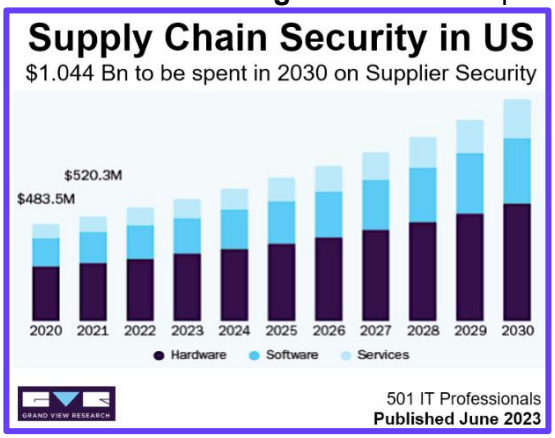

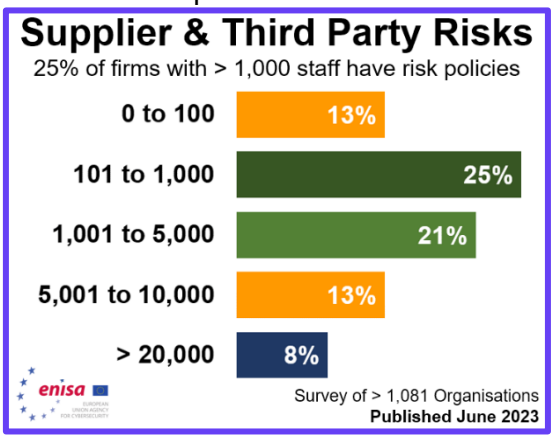

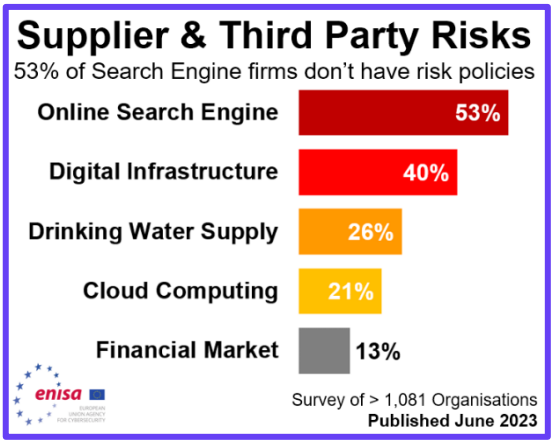

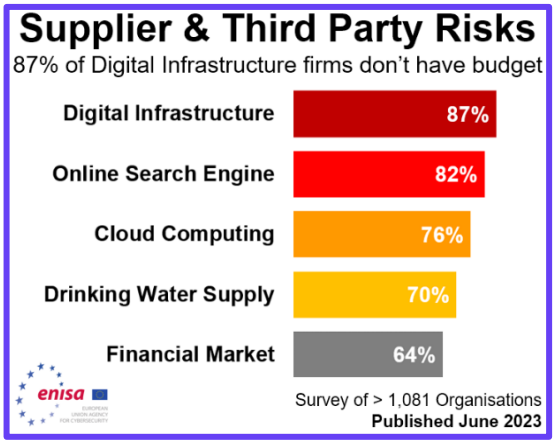

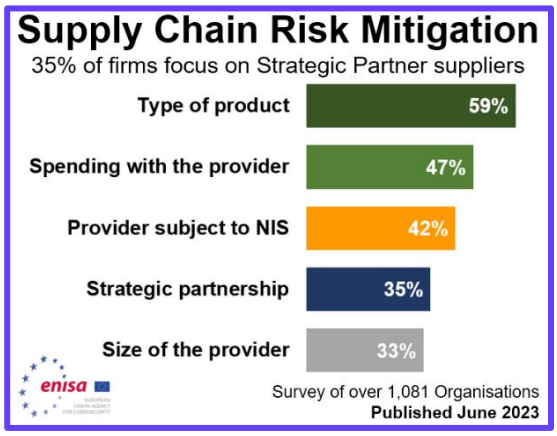

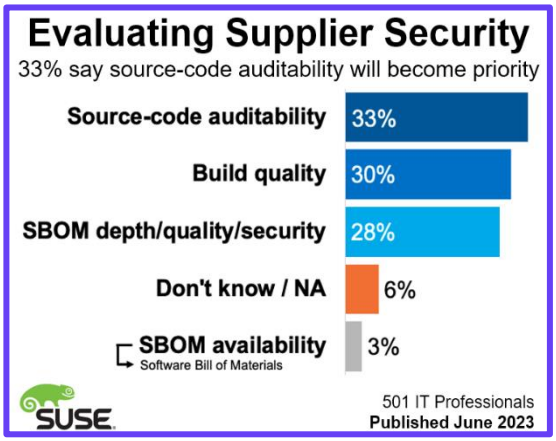

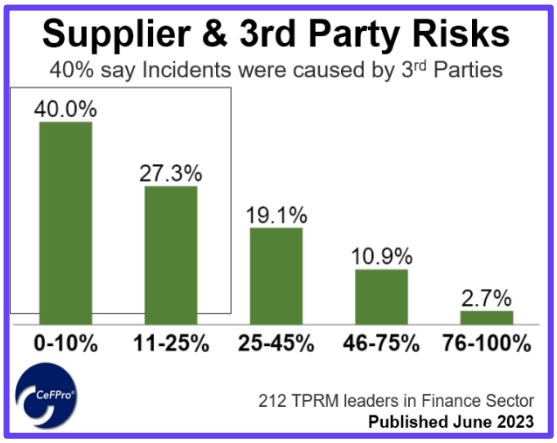

Cyber Insights: *Cyber Security Flaws*

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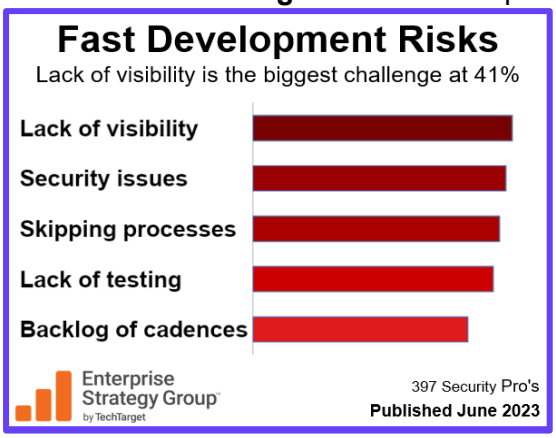

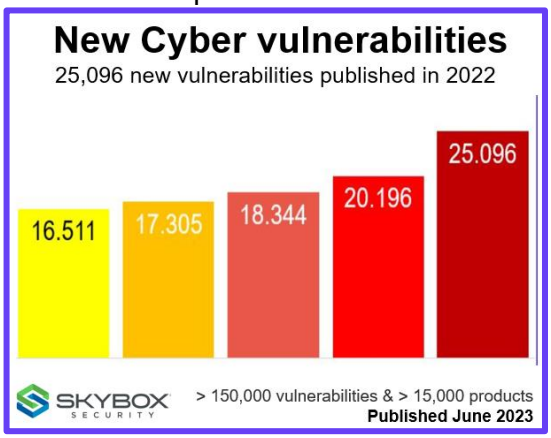

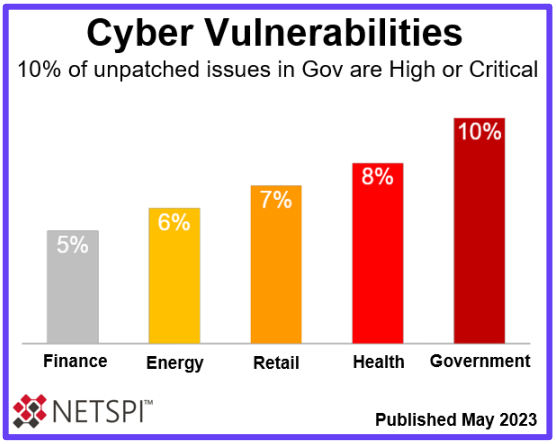

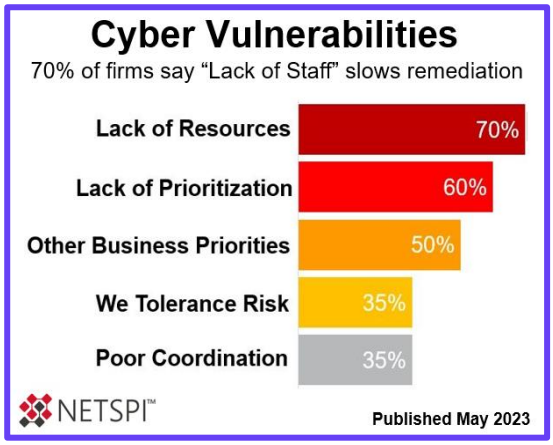

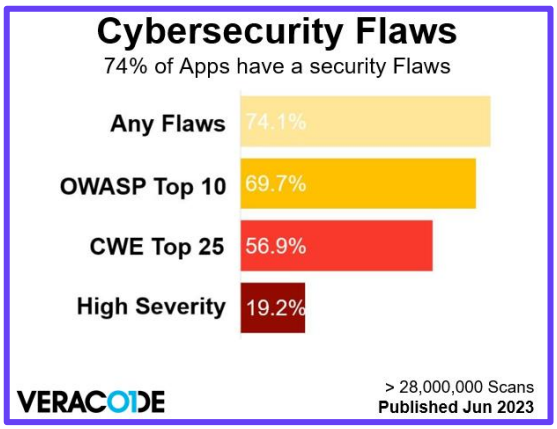

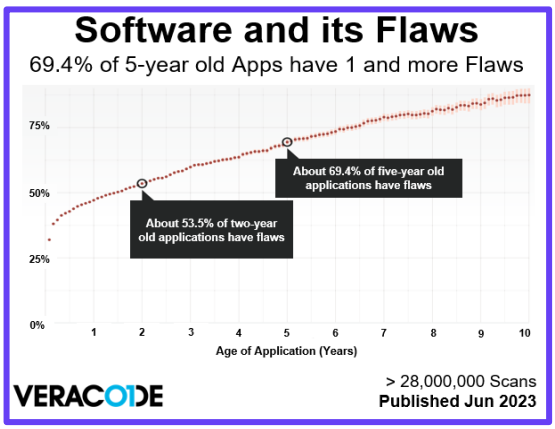

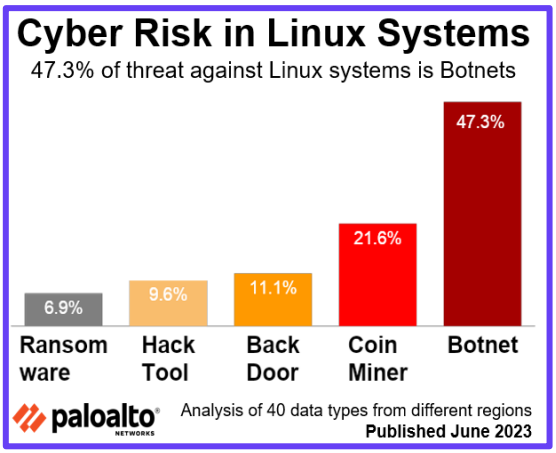

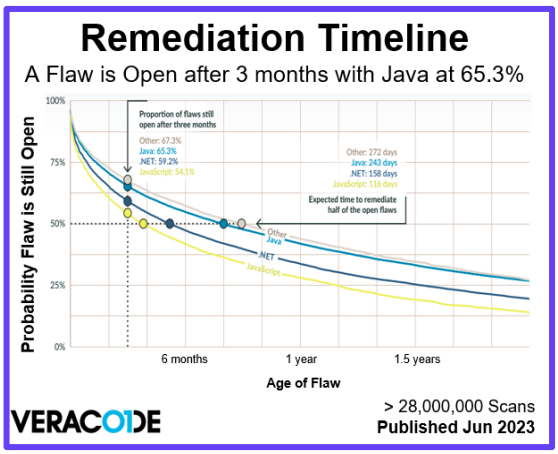

Cyber Insights: *Cyber Threat Targets*

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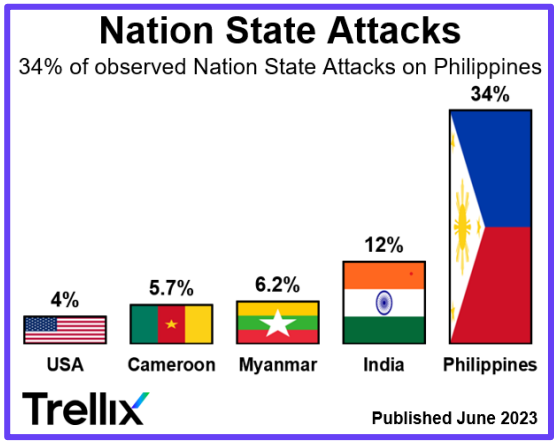

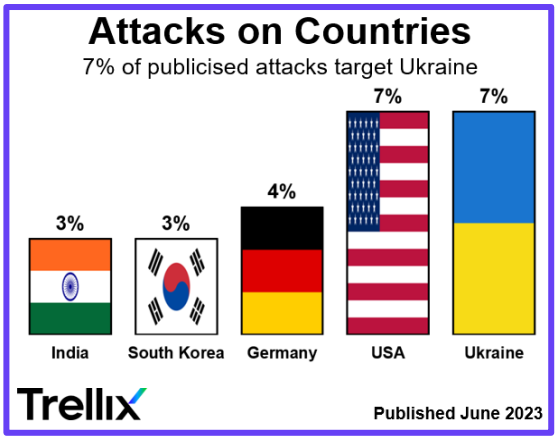

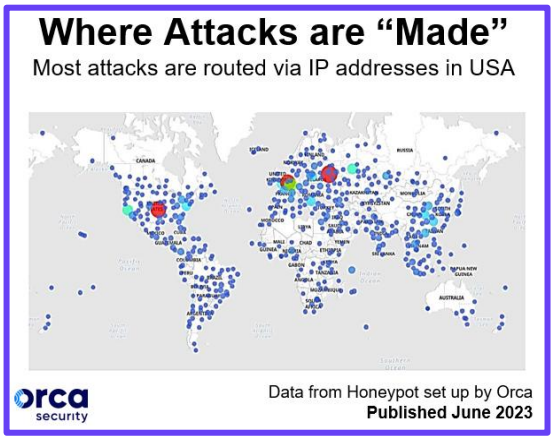

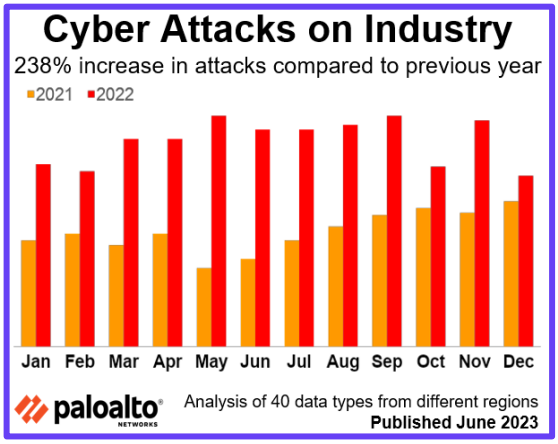

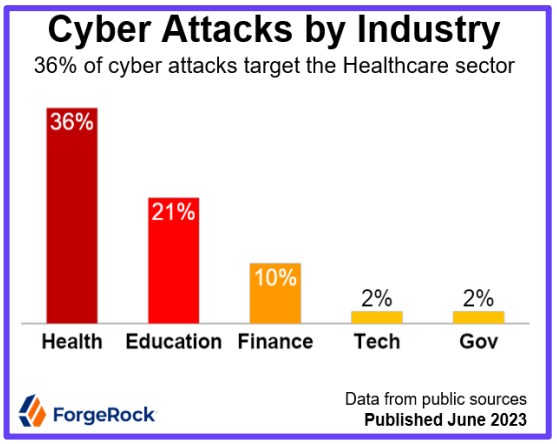

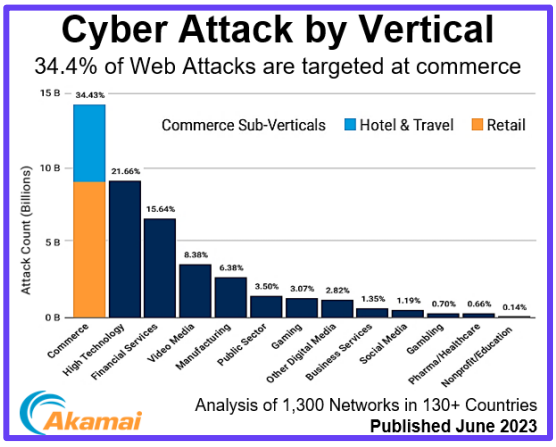

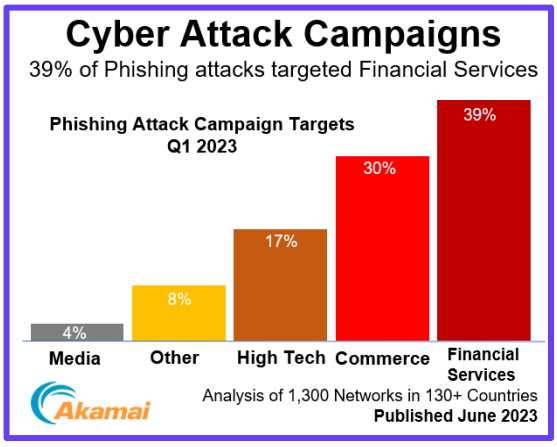

Cyber Insights: *Cyber Attack Methods*

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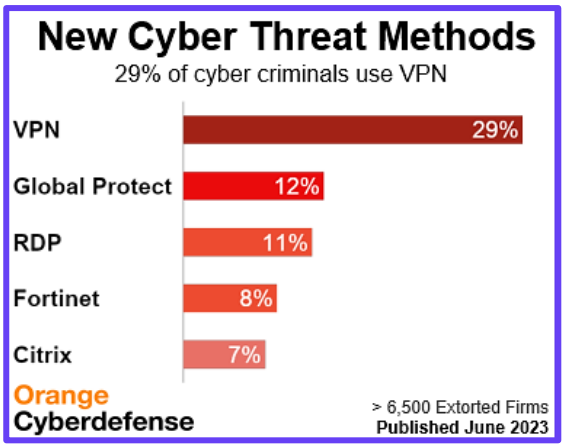

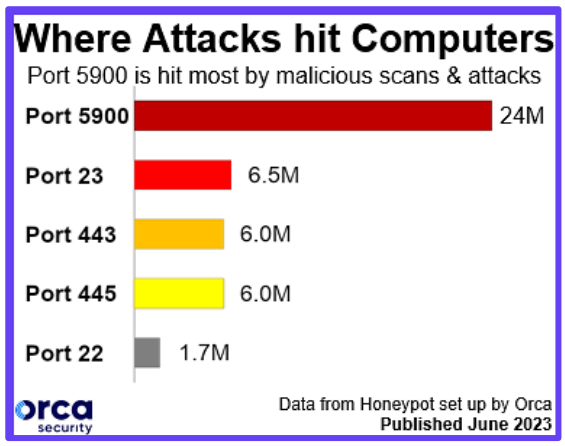

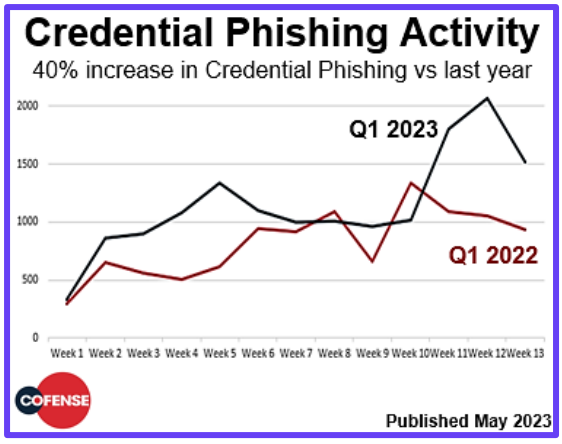

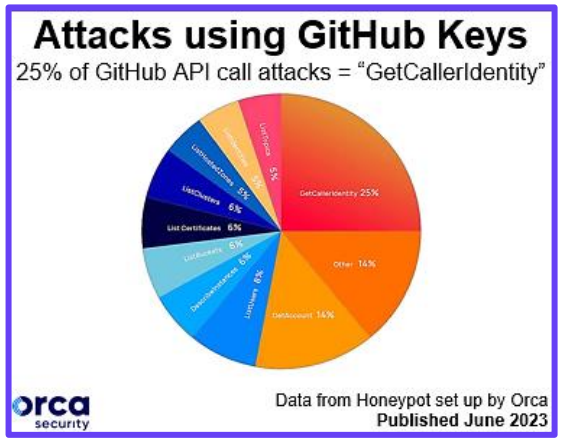

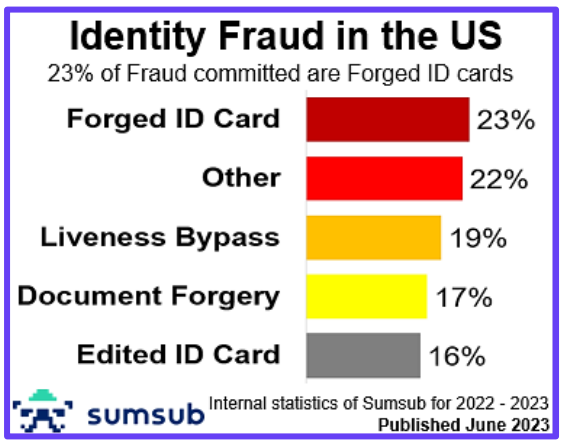

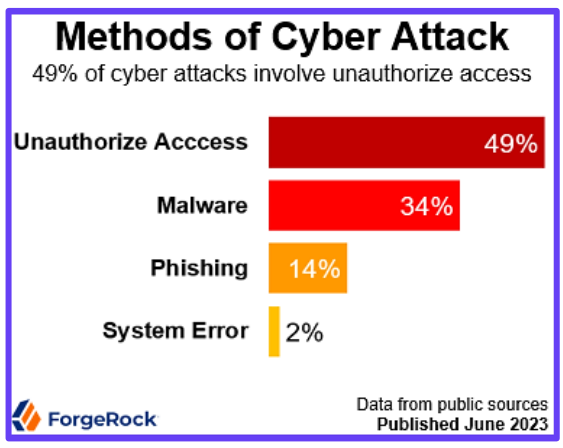

Cyber Insights: *Cyber Skills*

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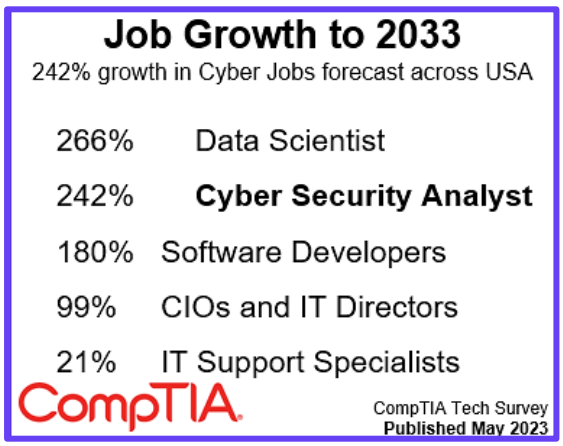

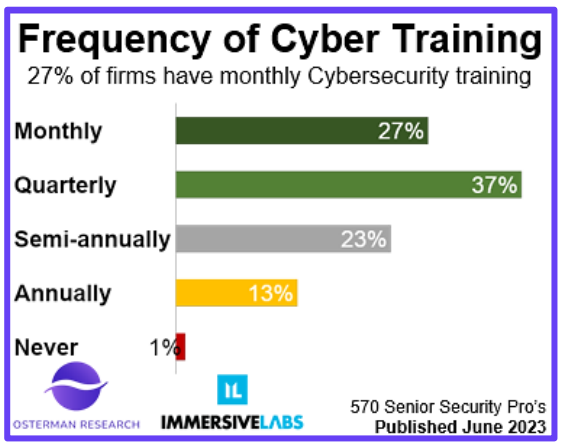

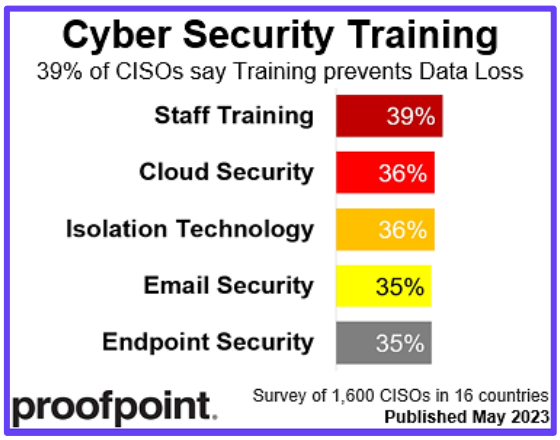

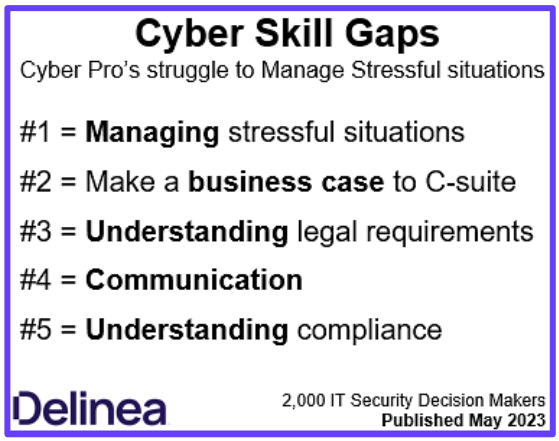

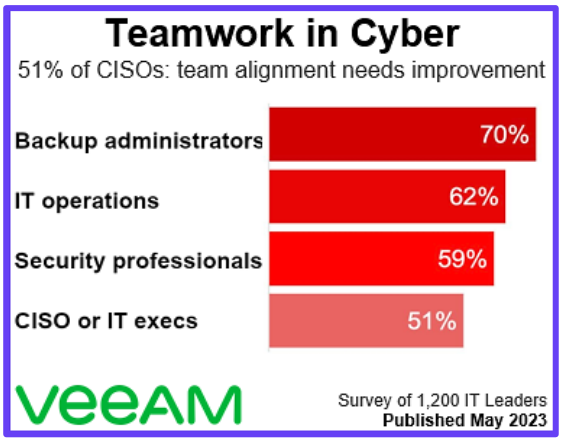

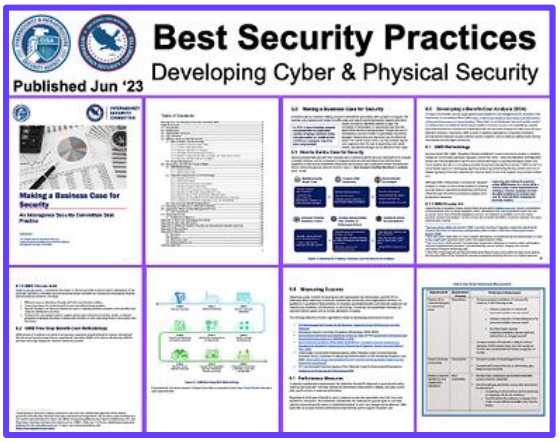

Cyber Insights: *Best Practices*

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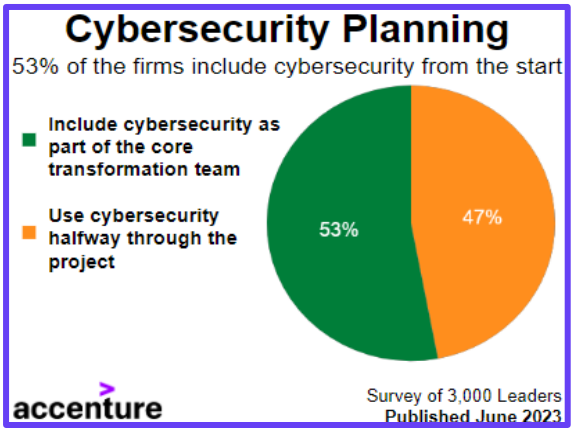

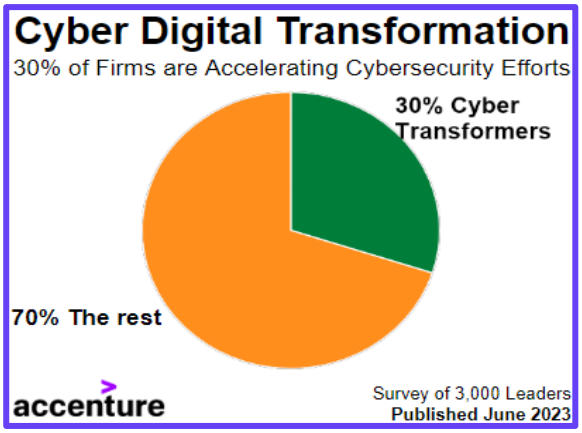

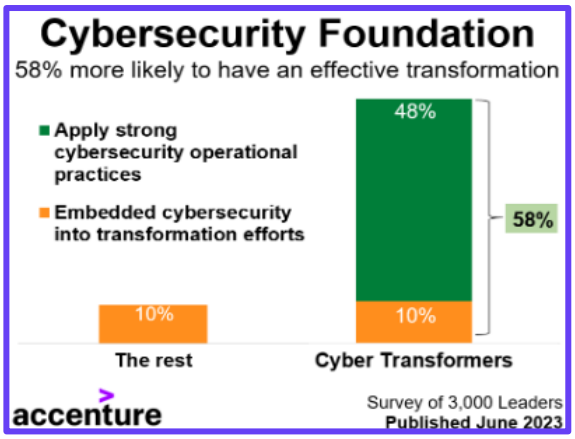

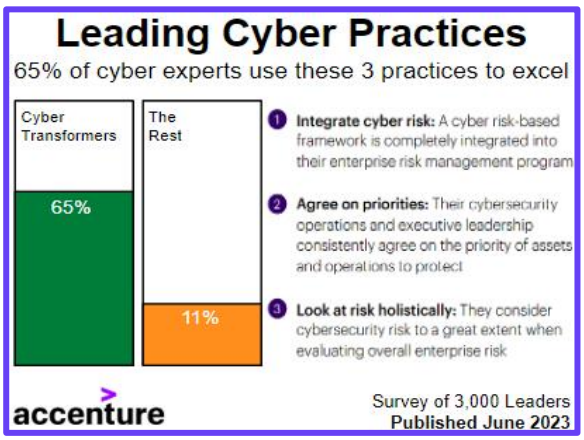

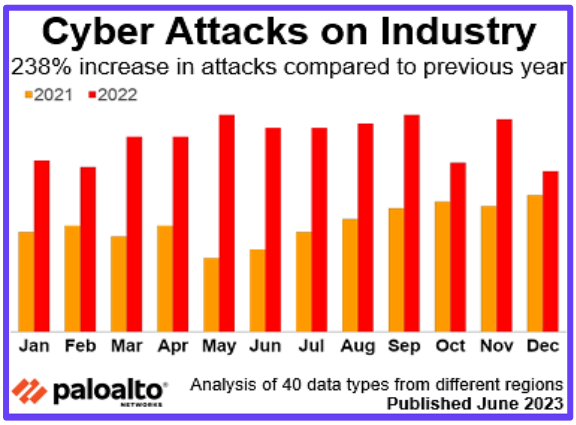

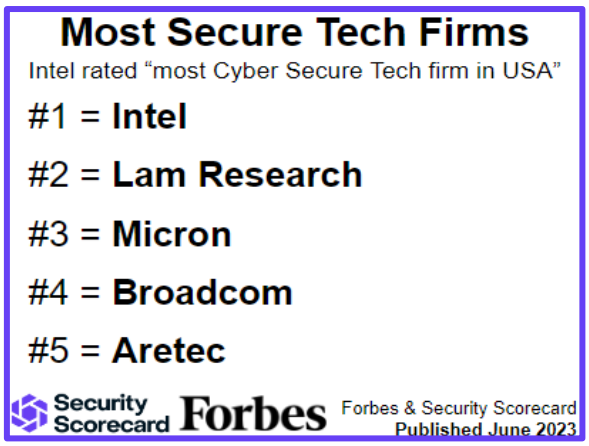

Cyber Insights: *Cyber Challenges*

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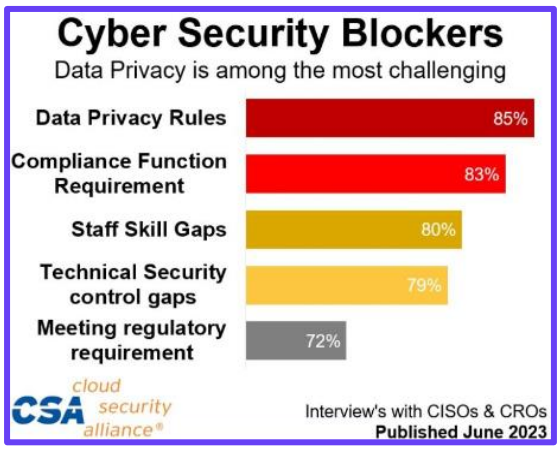

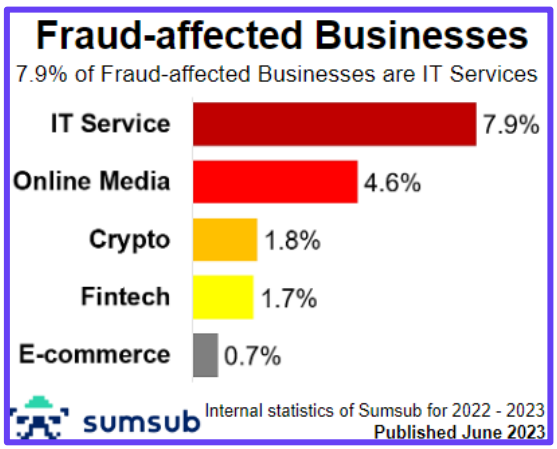

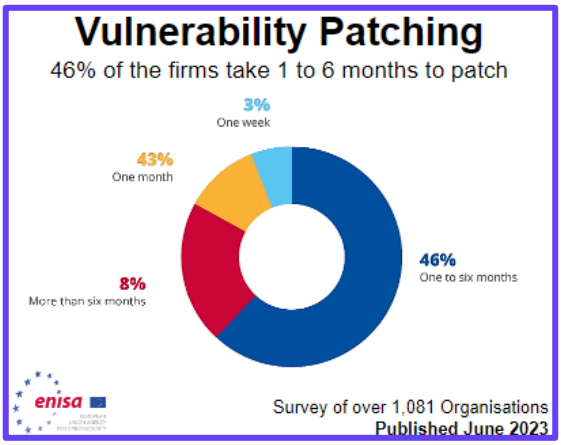

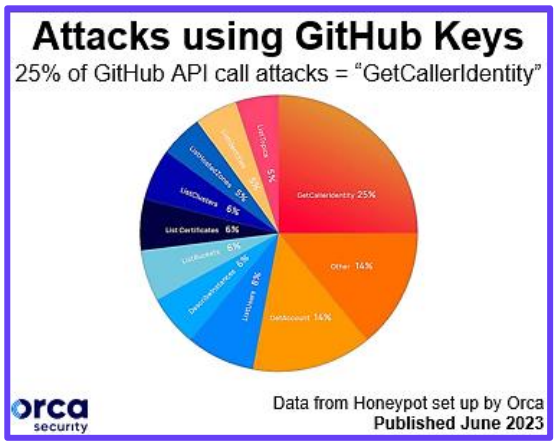

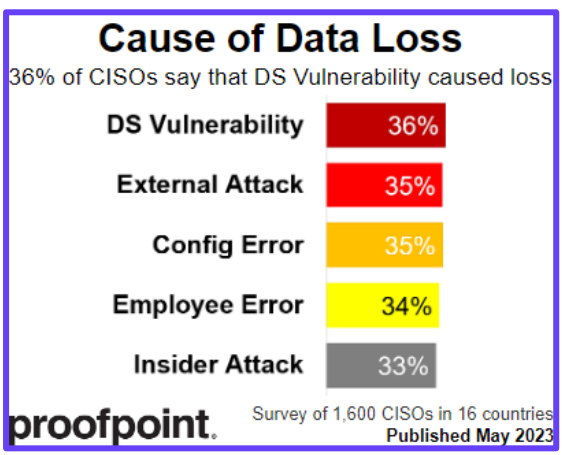

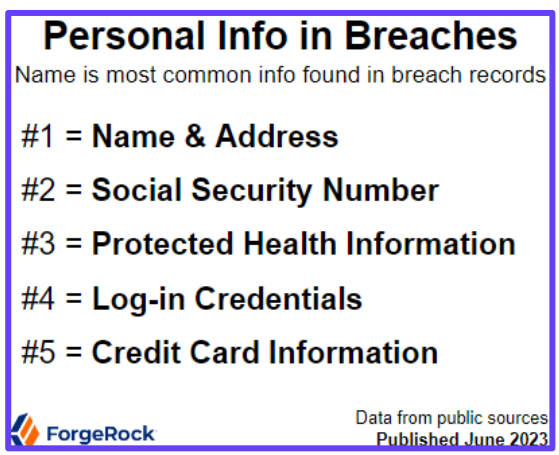

Cyber Insights: *Supplier & 3rd Party Risk*

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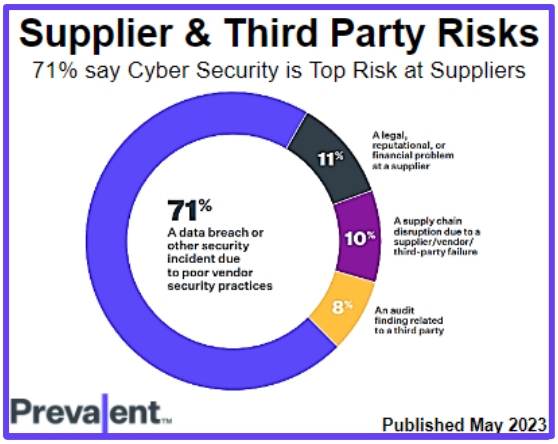

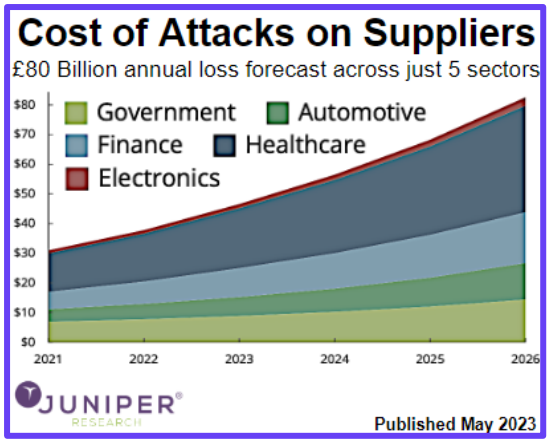

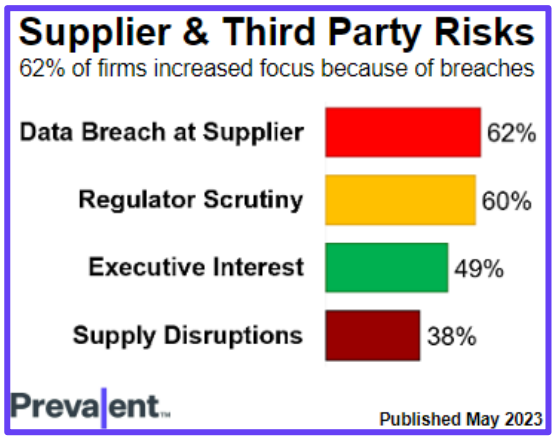

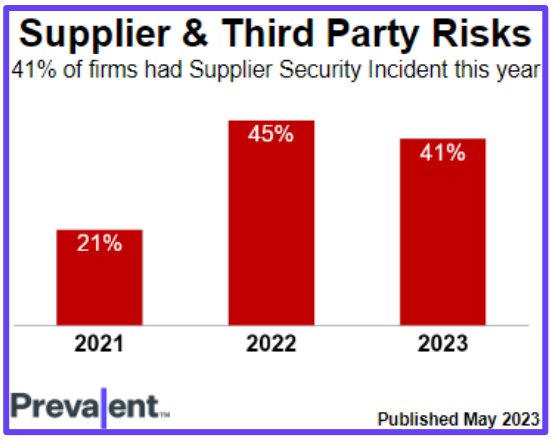

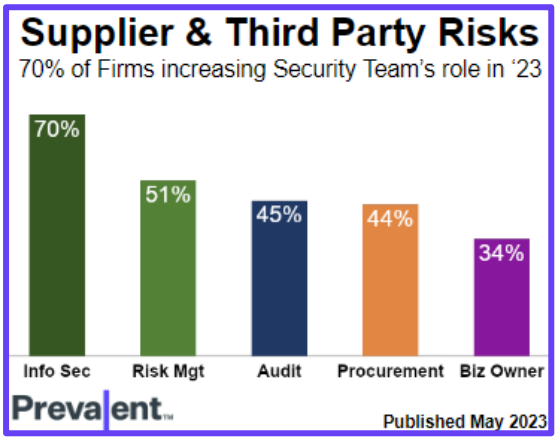

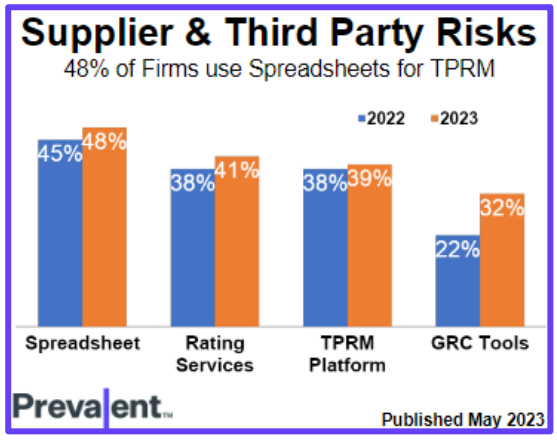

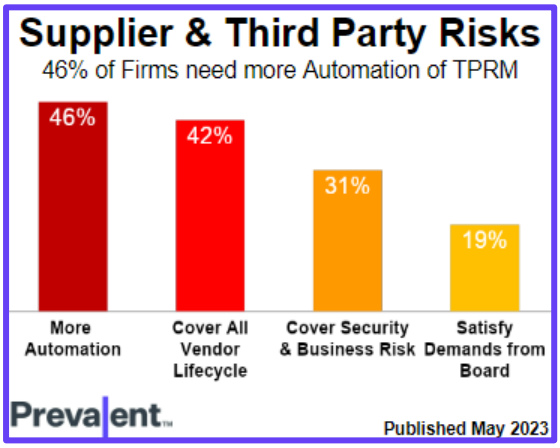

Cyber Insights: *Cyber Insurance*

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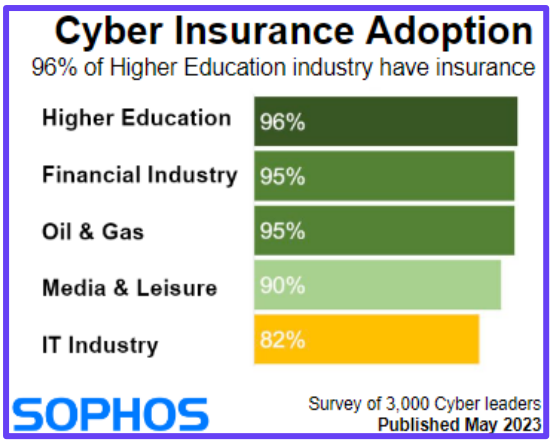

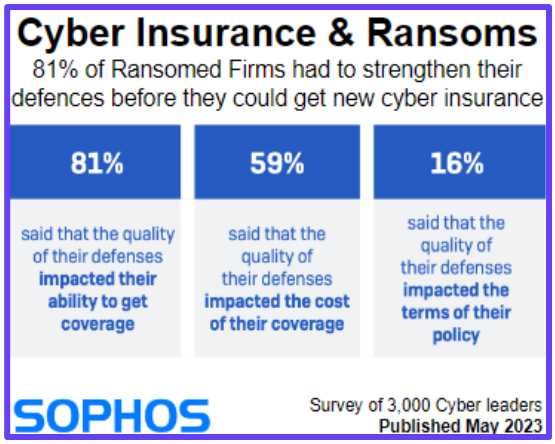

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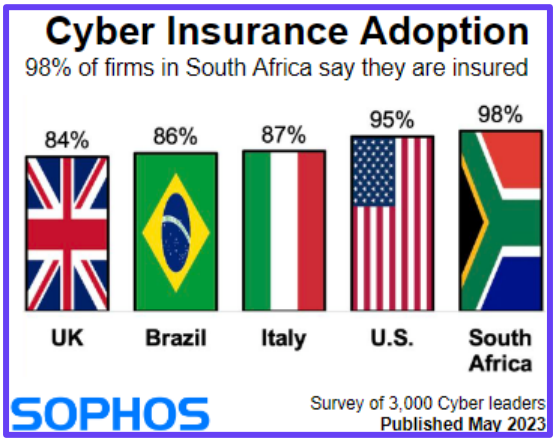

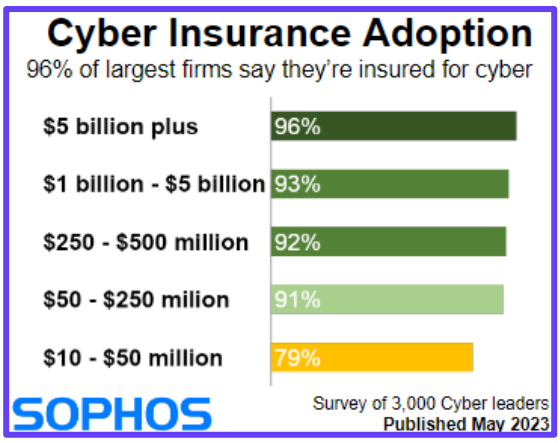

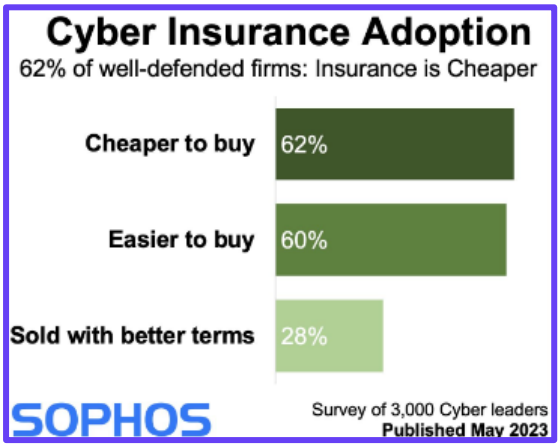

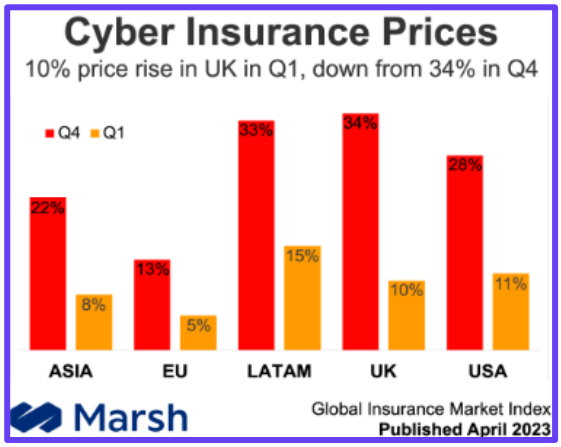

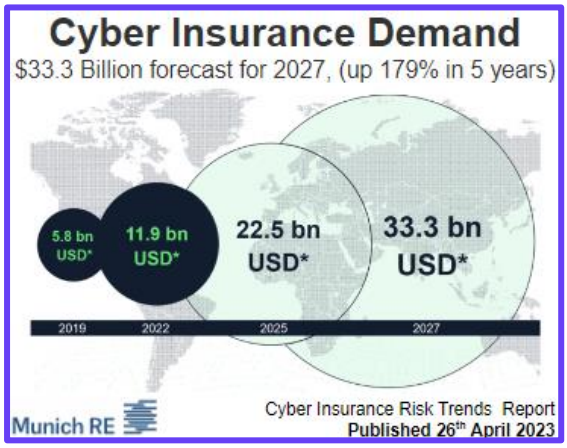

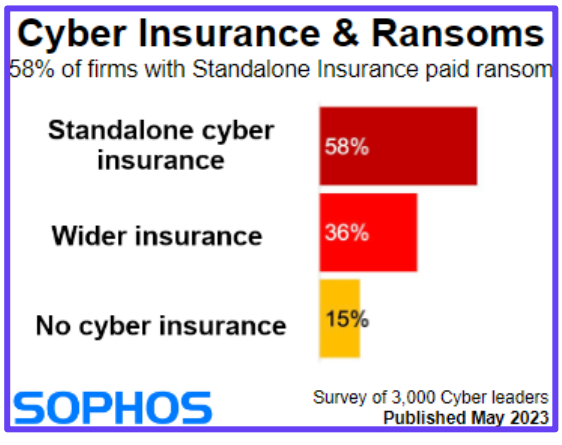

Cyber Insights: *Success for CISOs*

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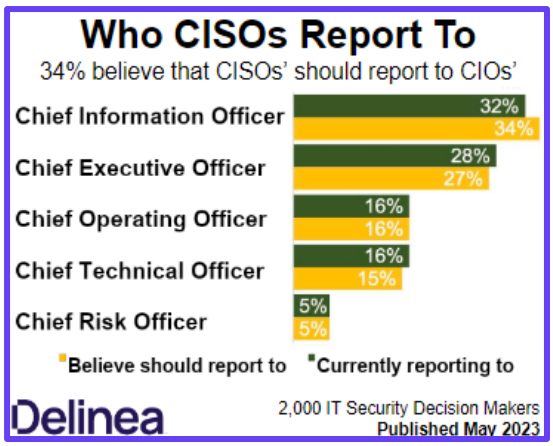

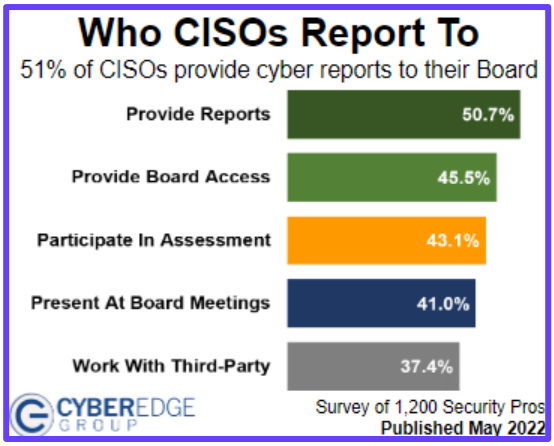

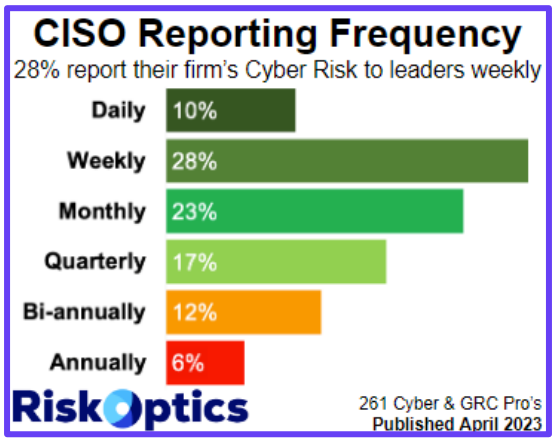

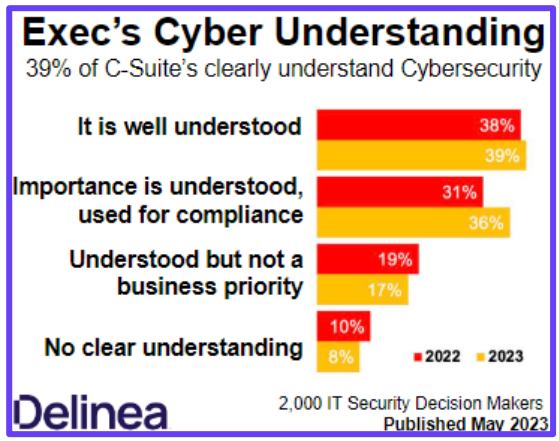

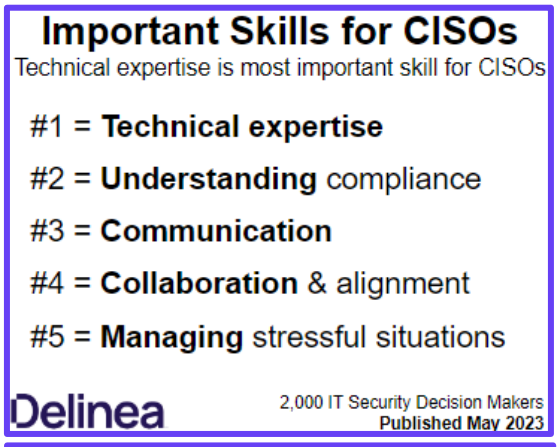

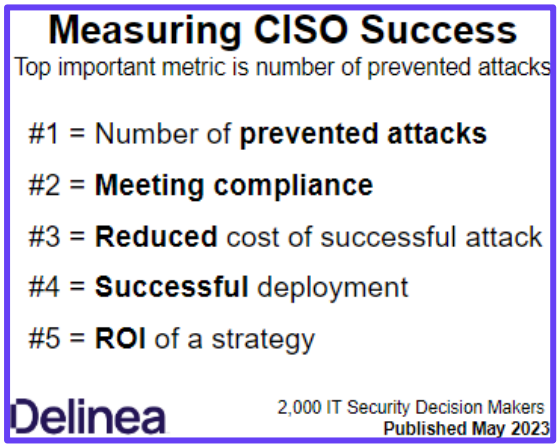

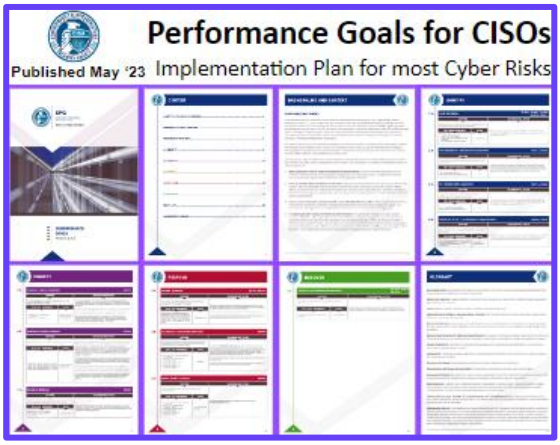

Cyber Insights: *Ransomware Vulnerabilities*

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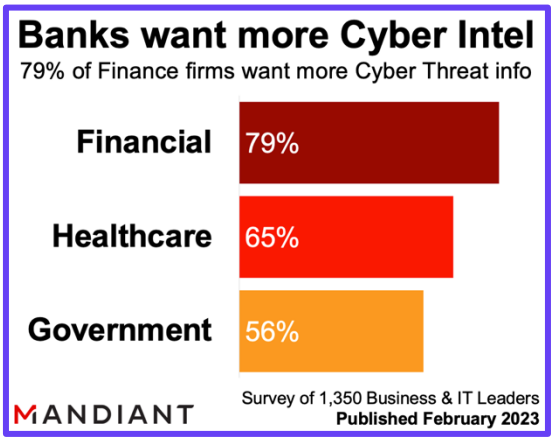

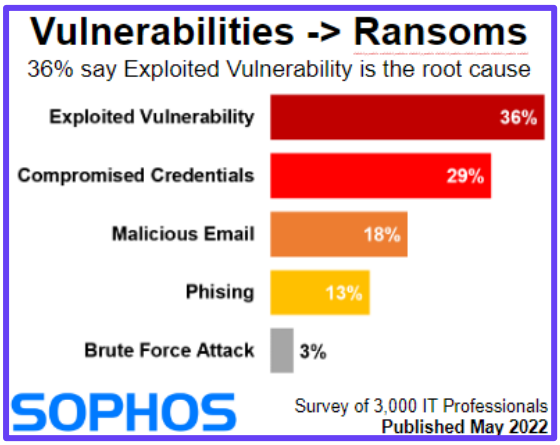

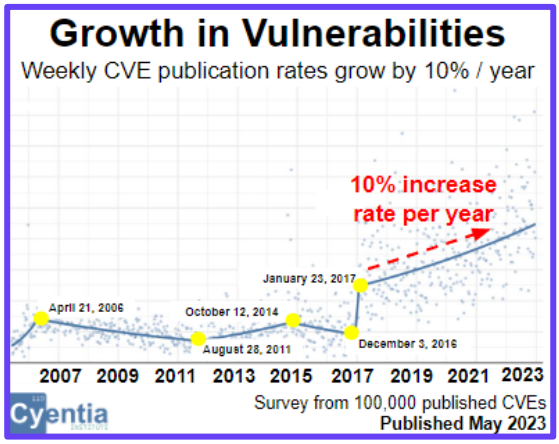

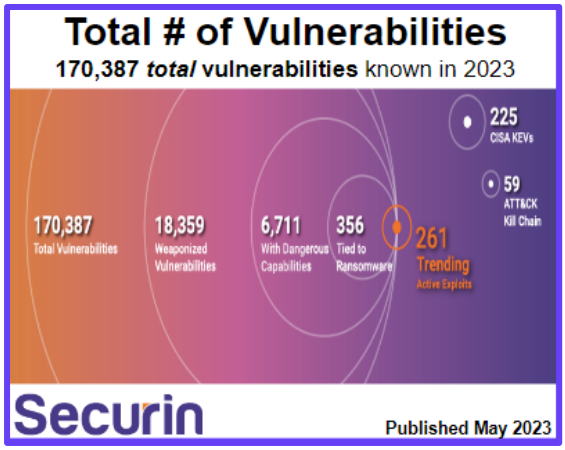

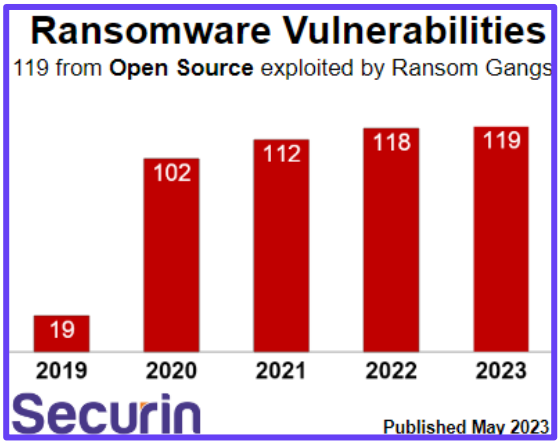

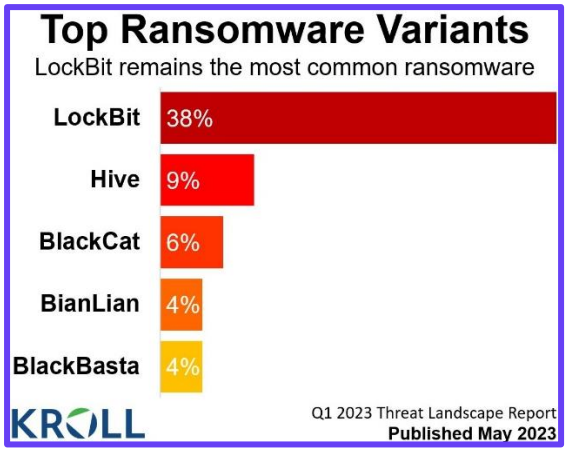

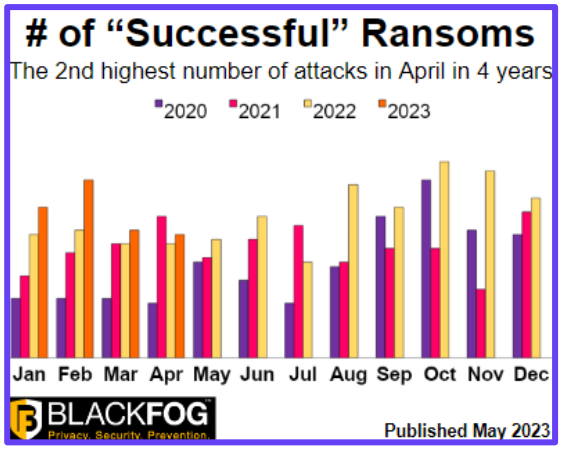

Cyber Insights: *Ransomware Victims*

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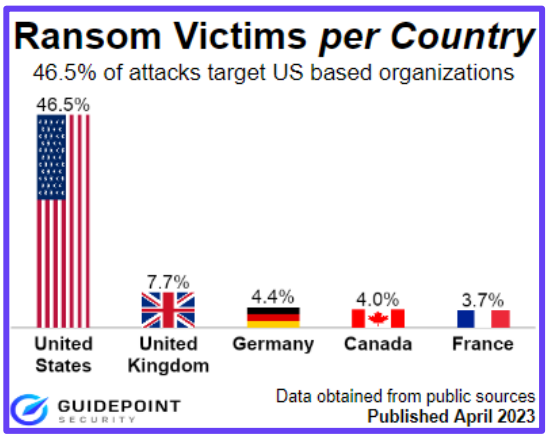

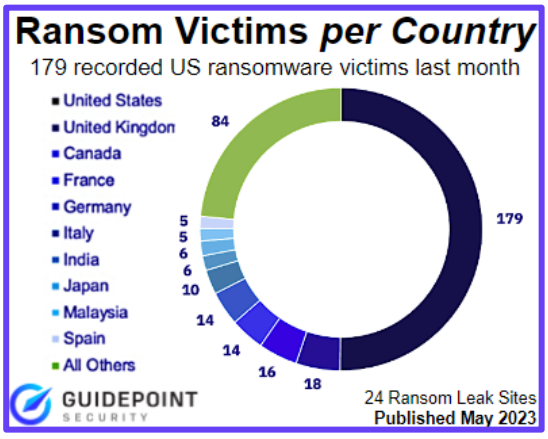

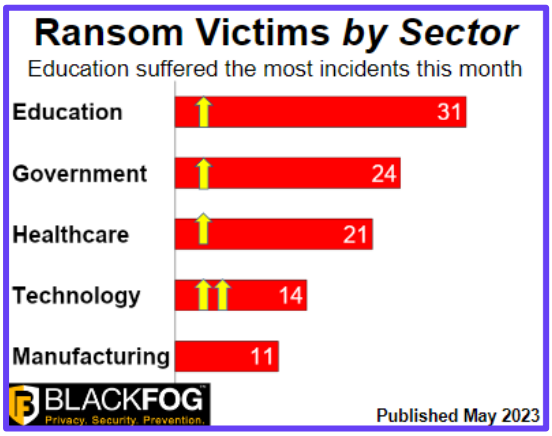

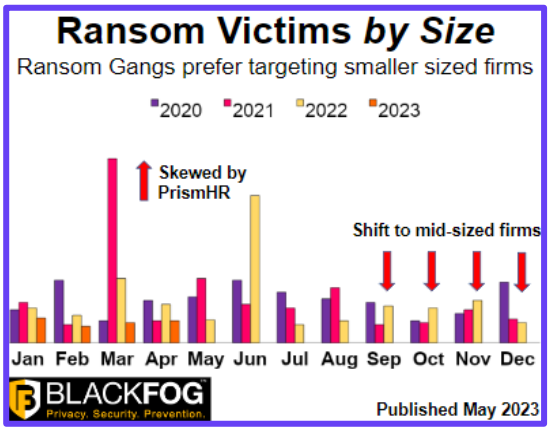

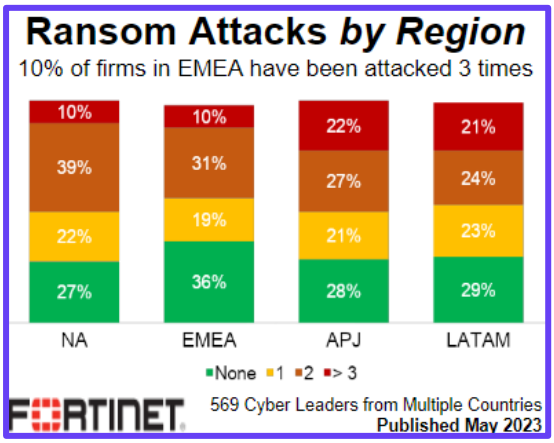

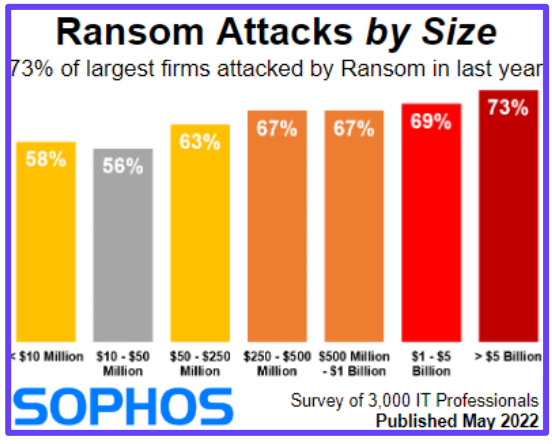

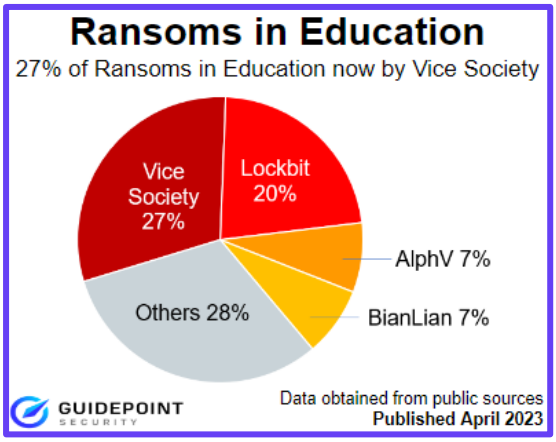

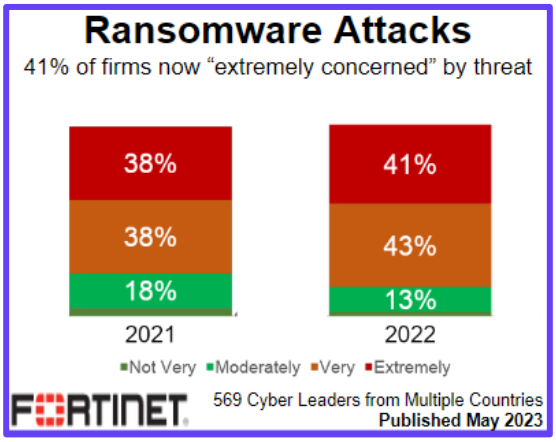

Cyber Insights: *Ransomware Insights*

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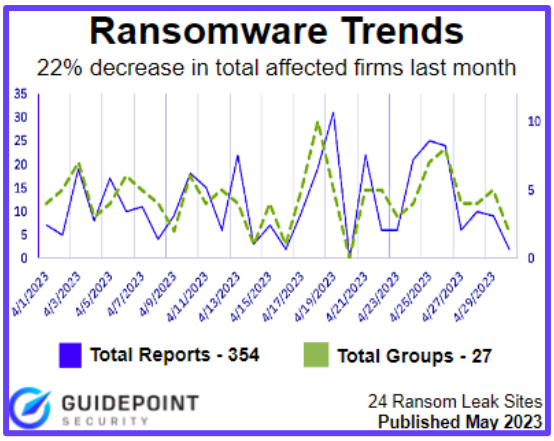

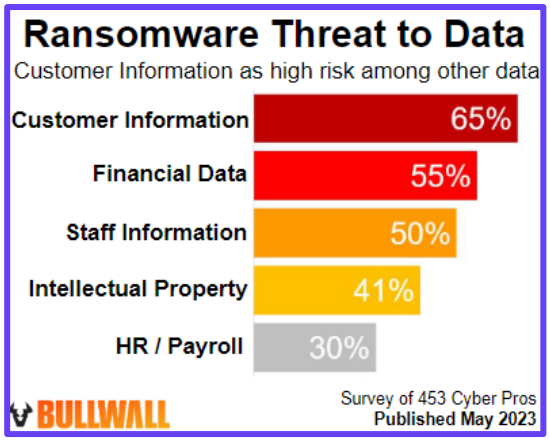

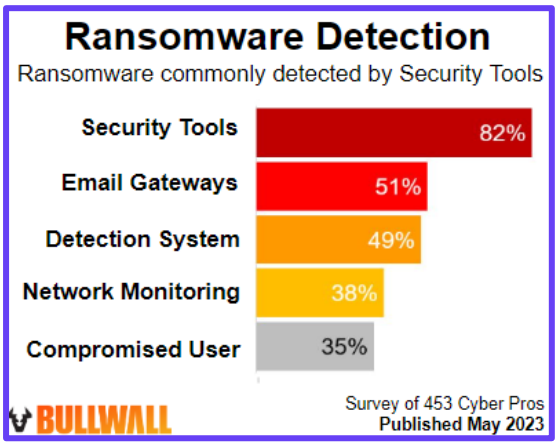

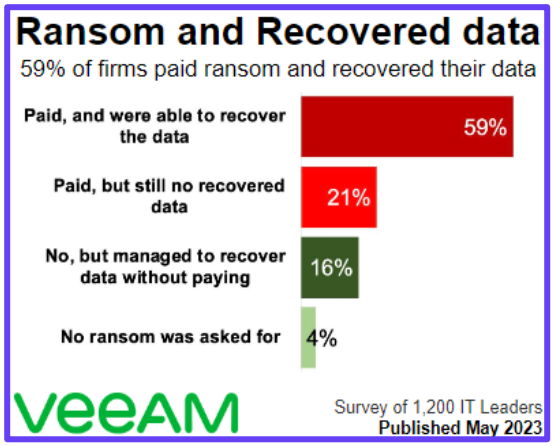

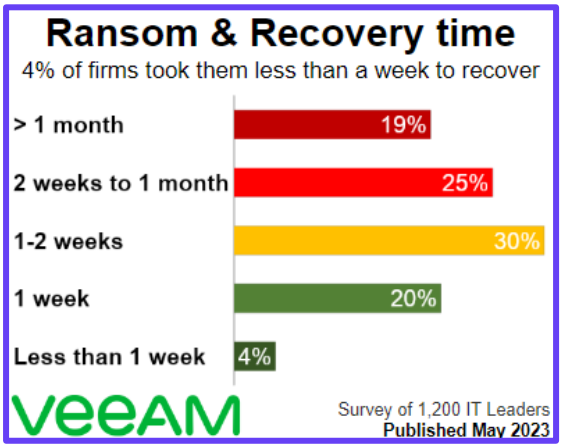

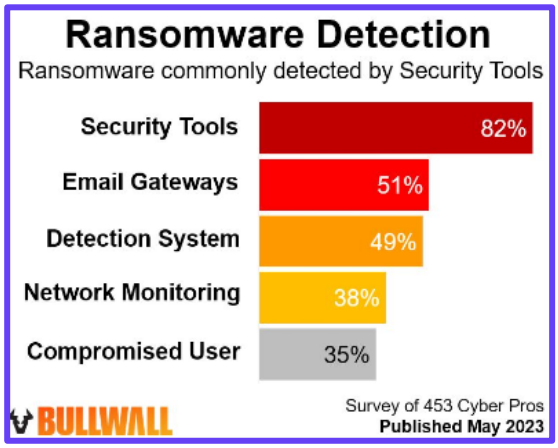

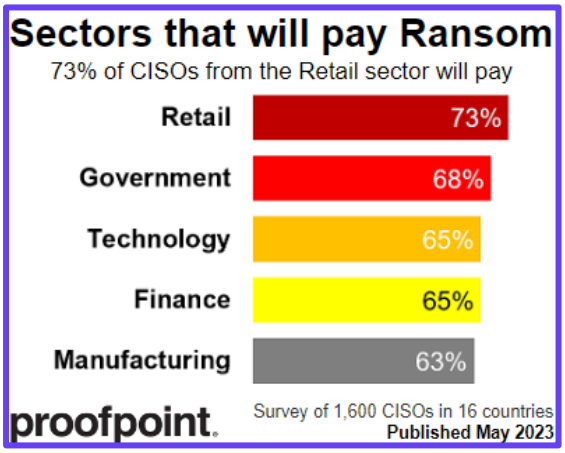

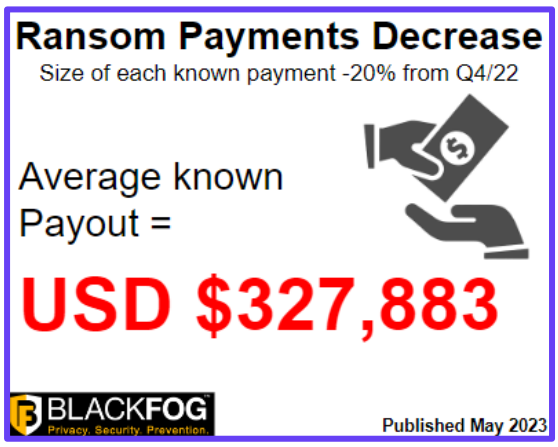

Cyber Insights: *Incident Response*

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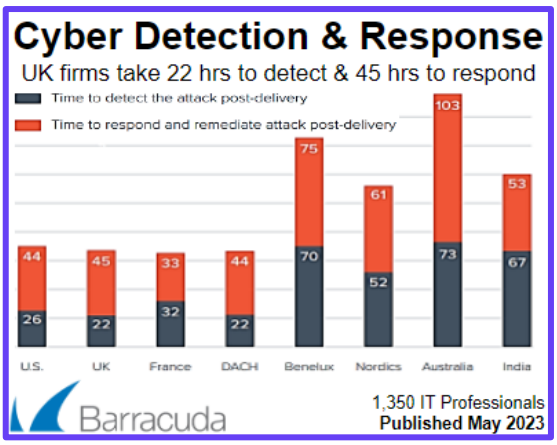

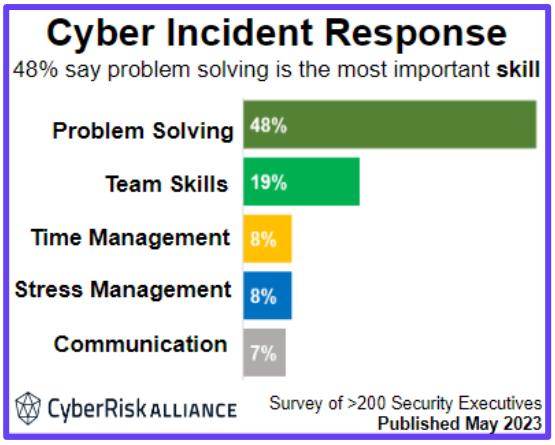

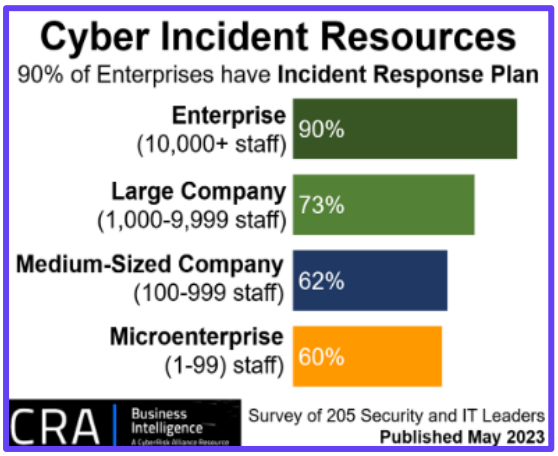

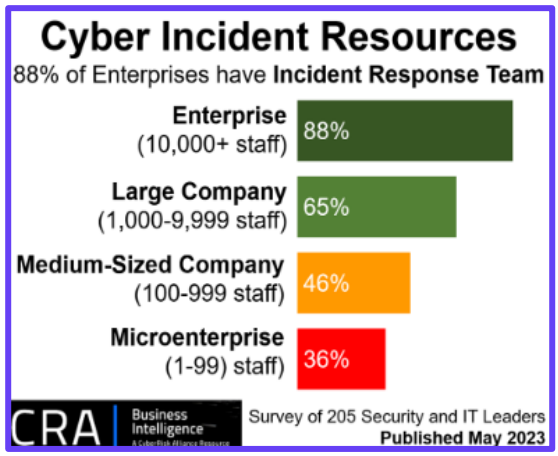

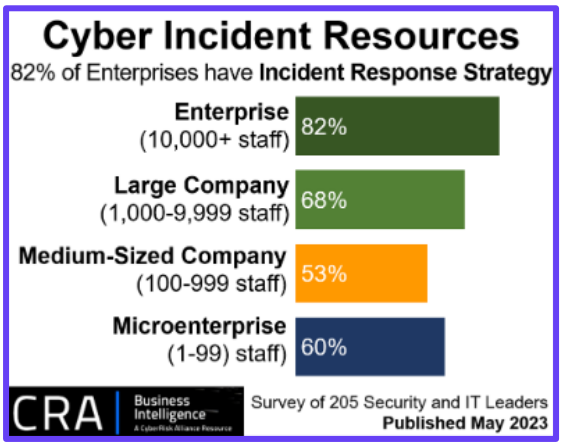

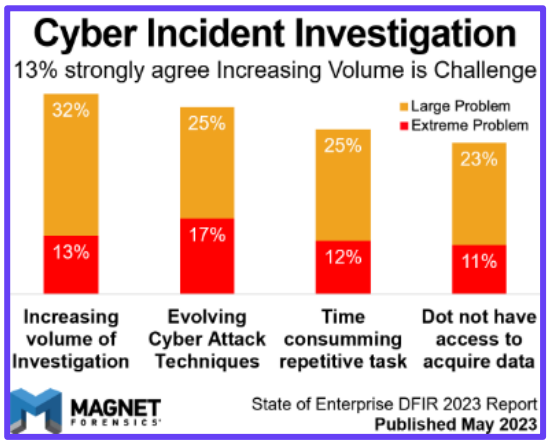

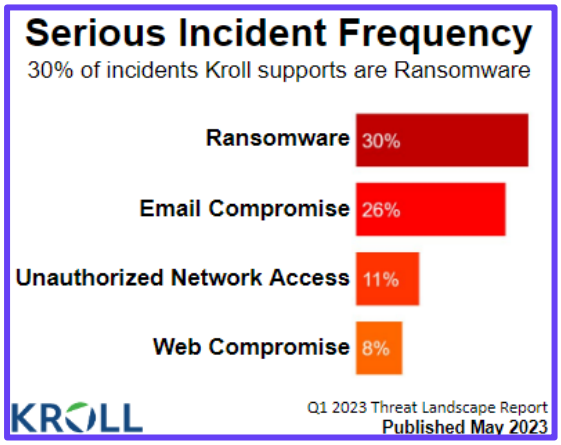

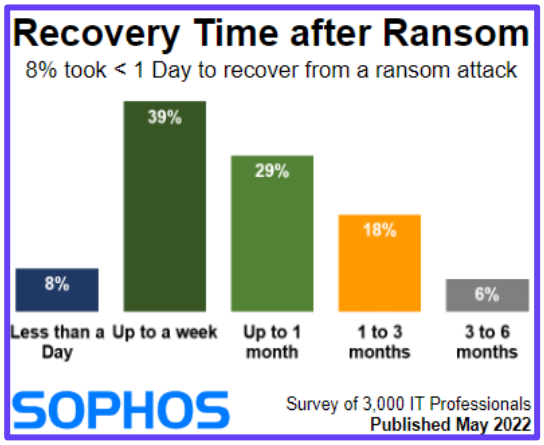

Cyber Insights: *Email Threats*

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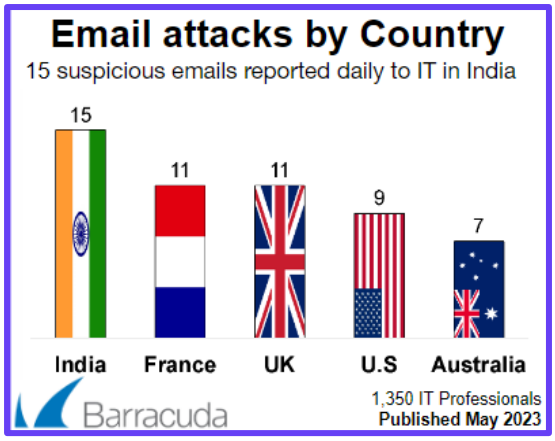

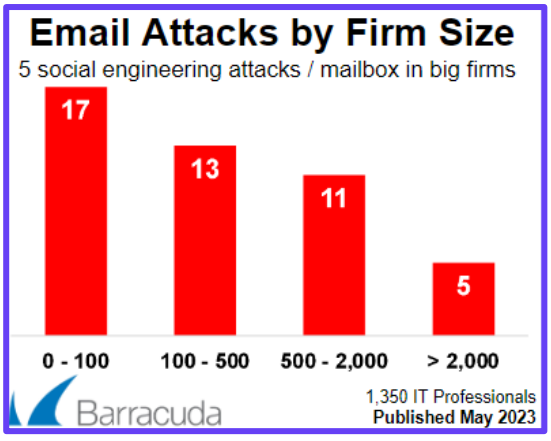

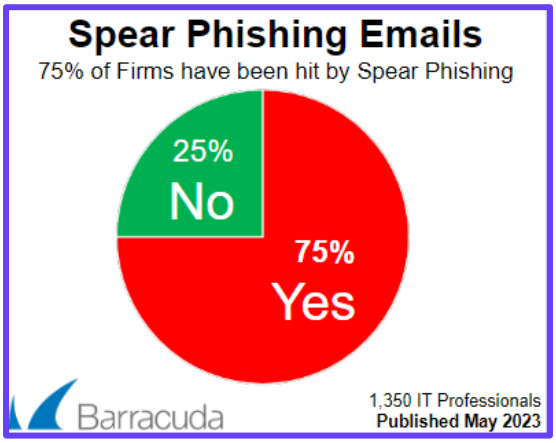

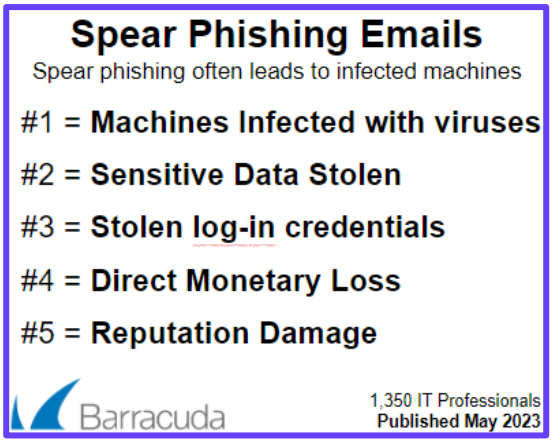

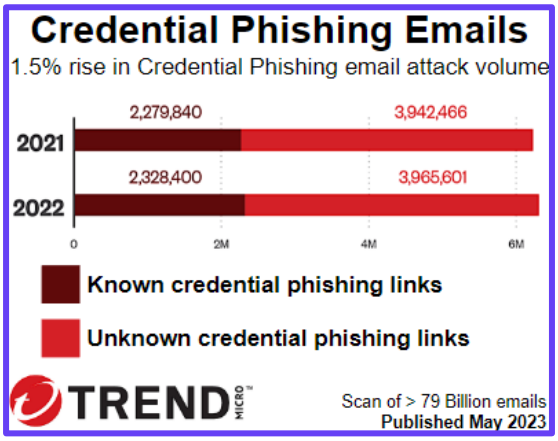

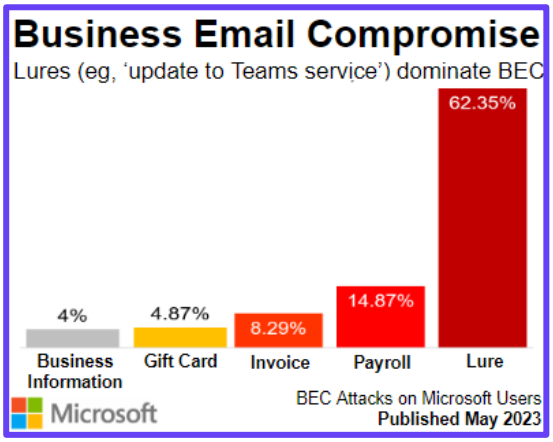

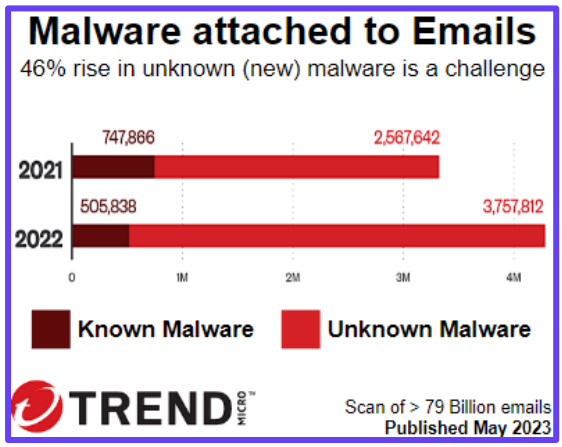

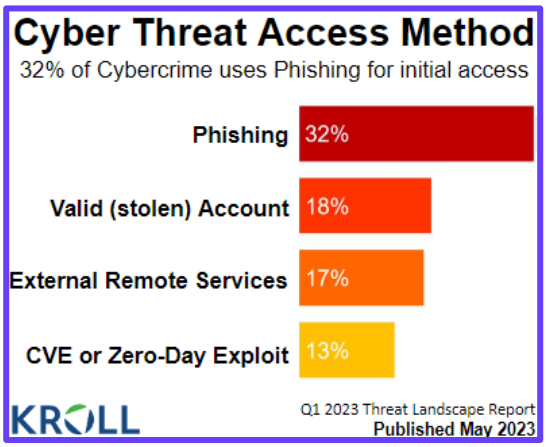

Cyber Insights: *Cyber Attacks*

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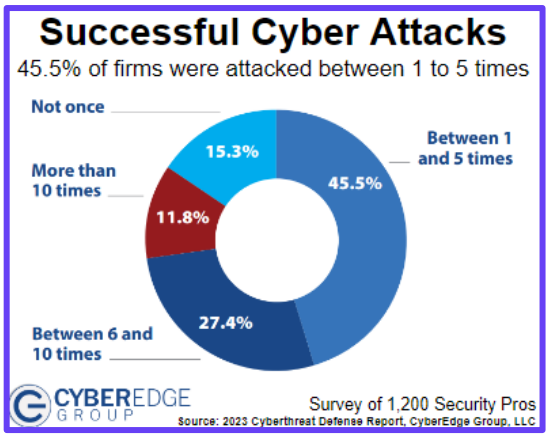

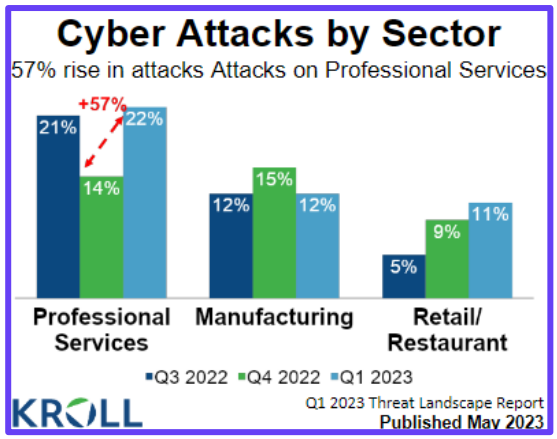

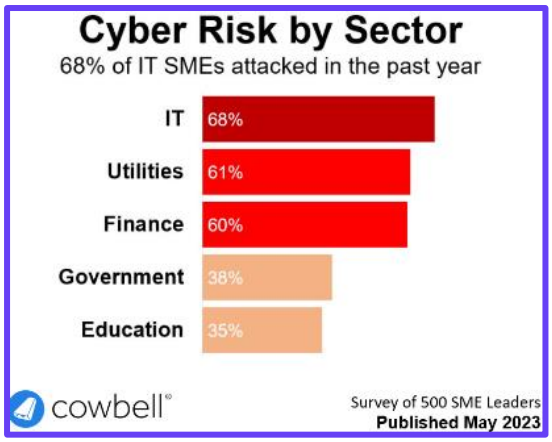

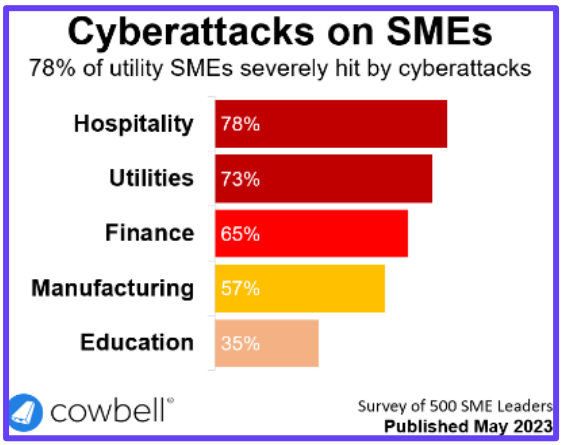

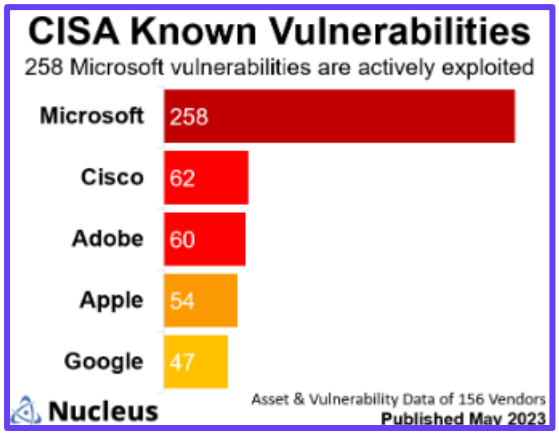

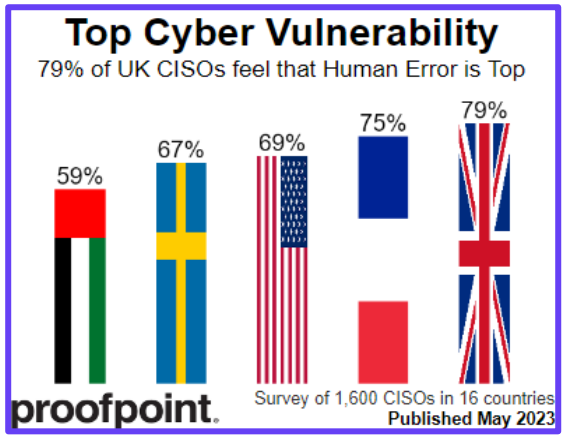

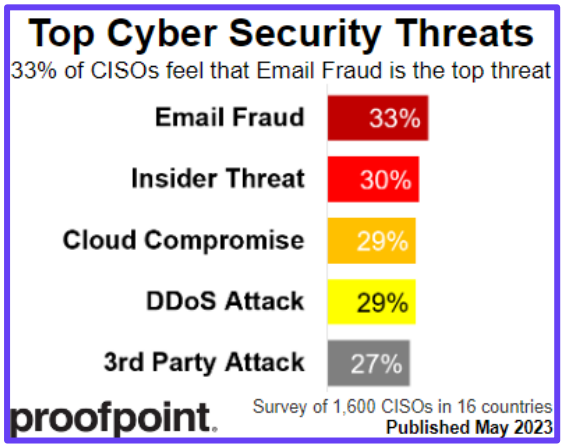

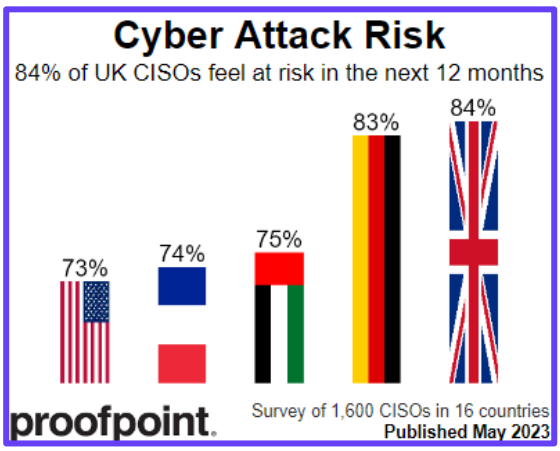

Cyber Insights: *AI and Bots*

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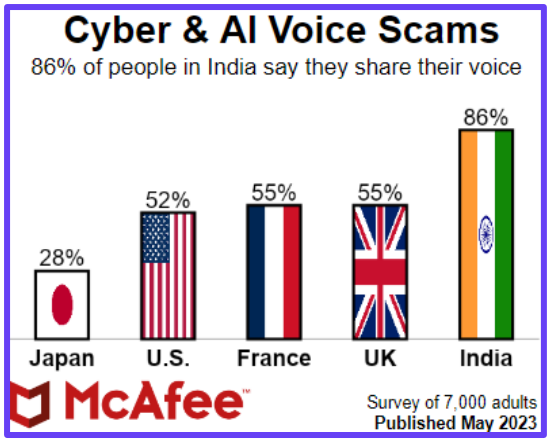

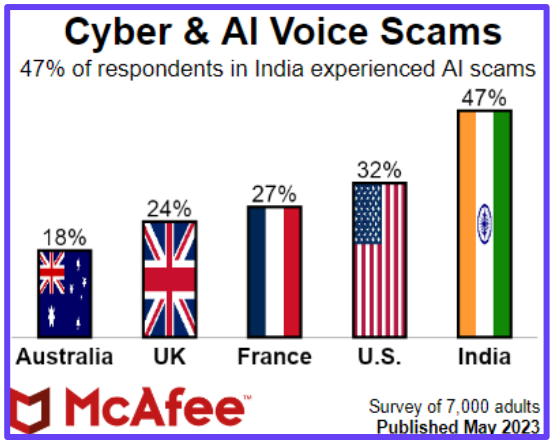

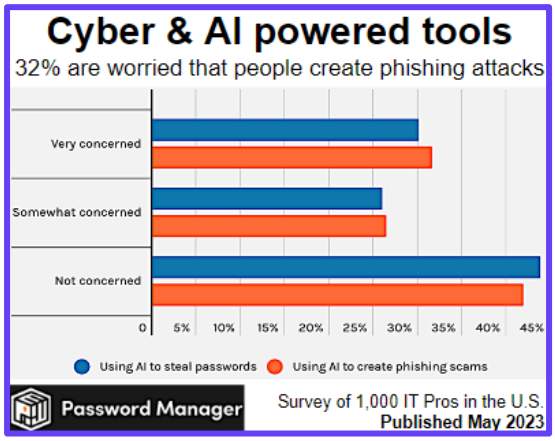

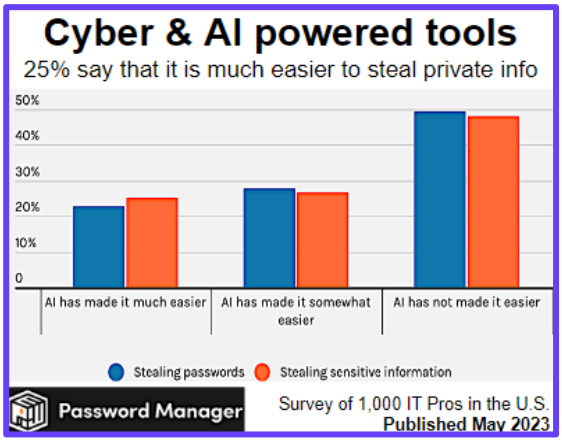

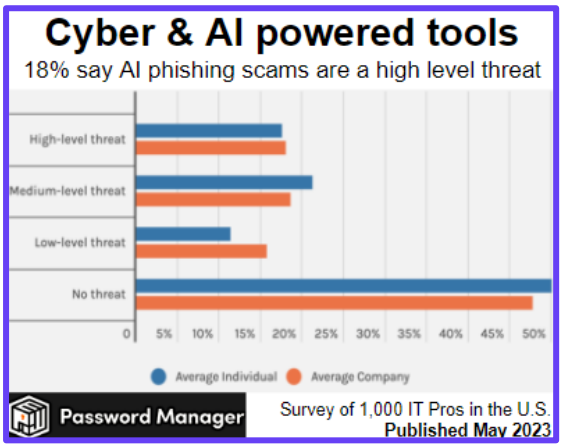

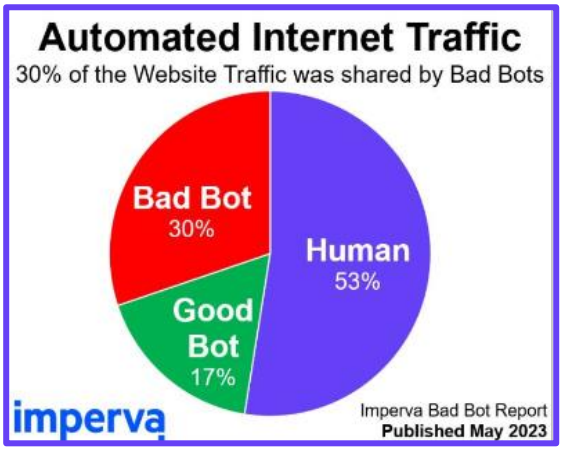

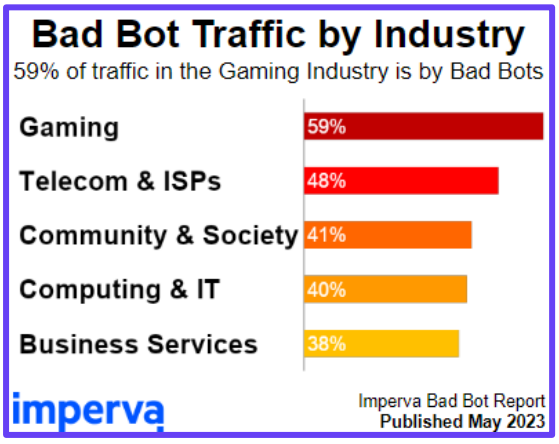

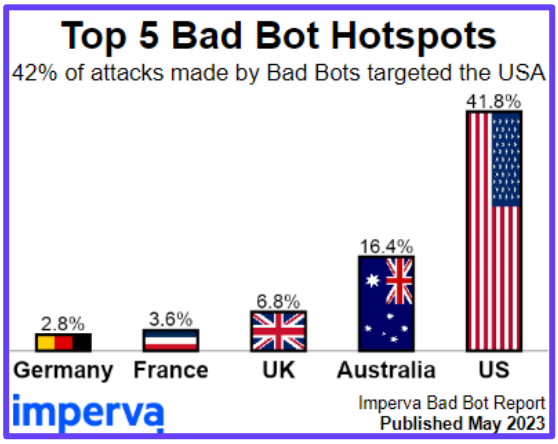

Cyber Insights: *Cyber Talent & Staff*

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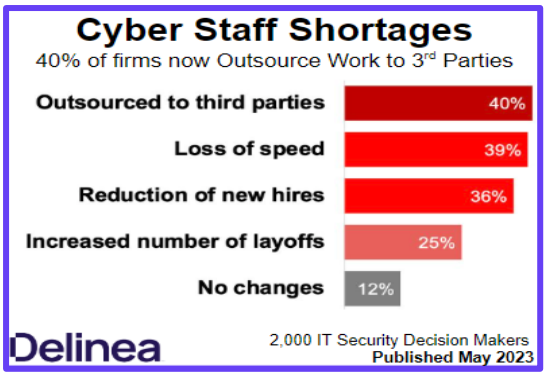

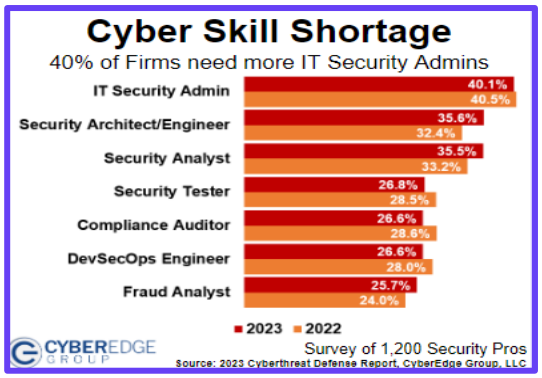

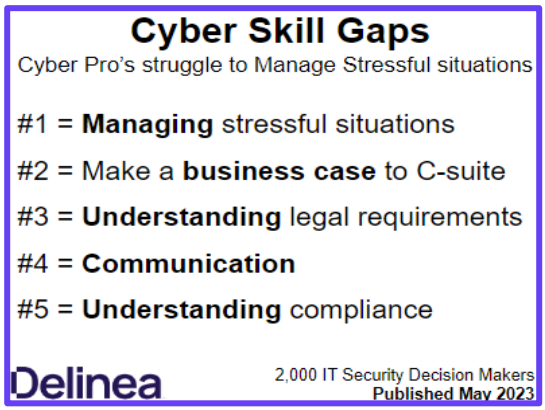

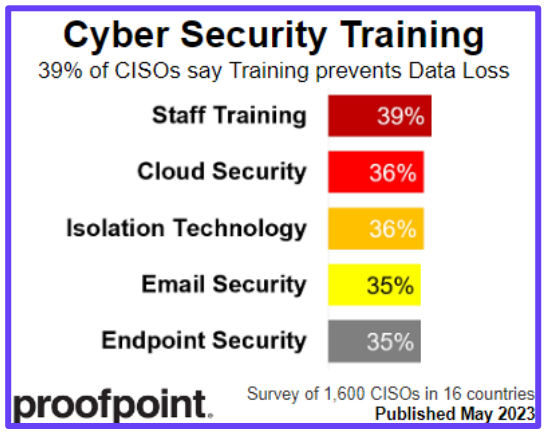

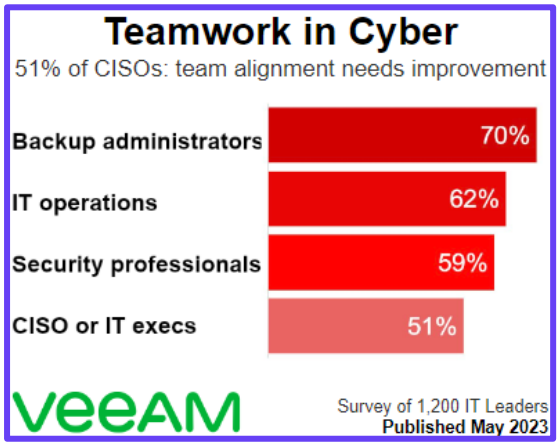

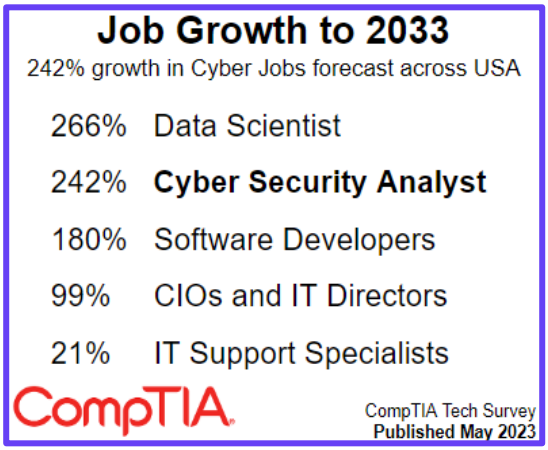

Cyber Insights: *Budget & Salaries*

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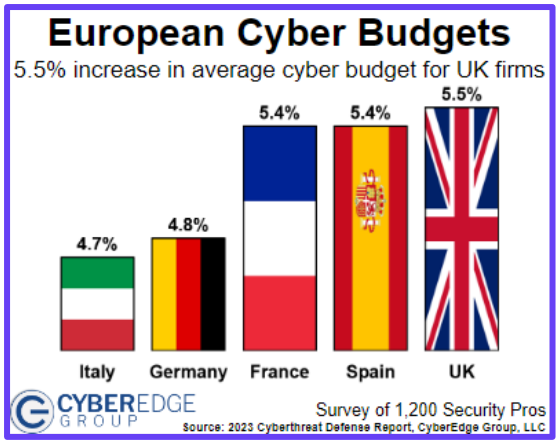

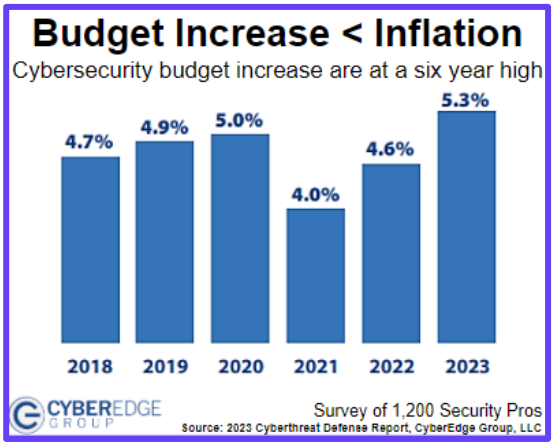

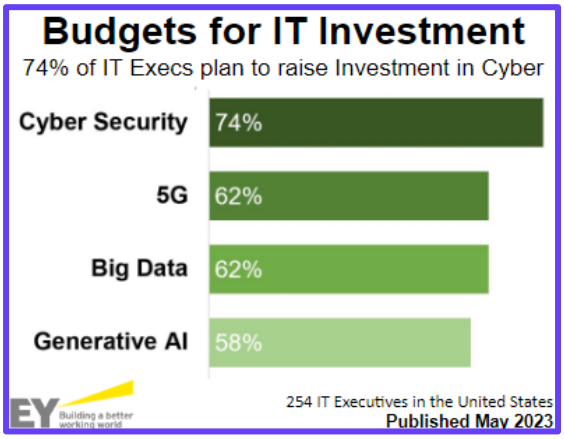

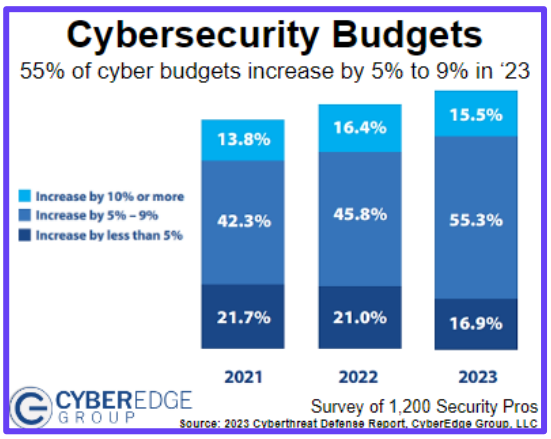

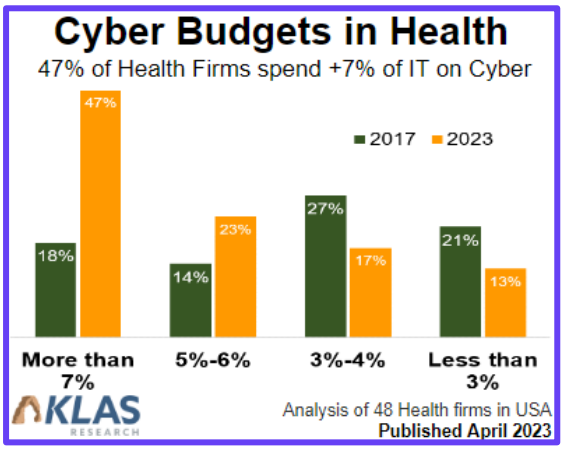

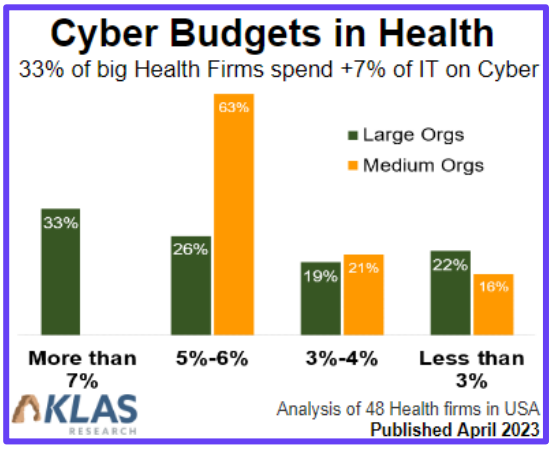

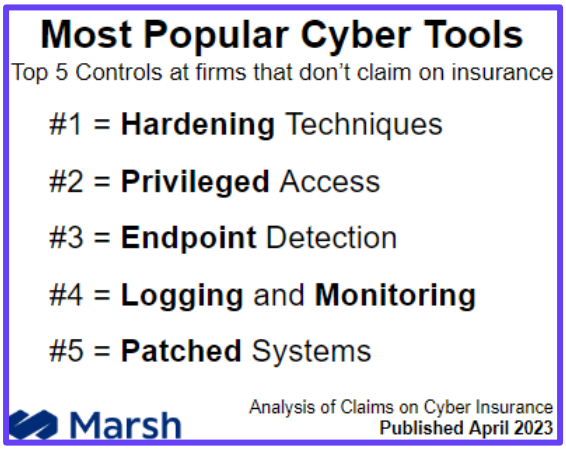

Cyber Insights: *Cloud Risks*

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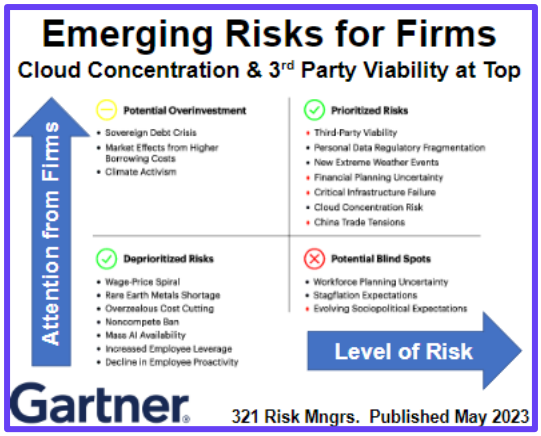

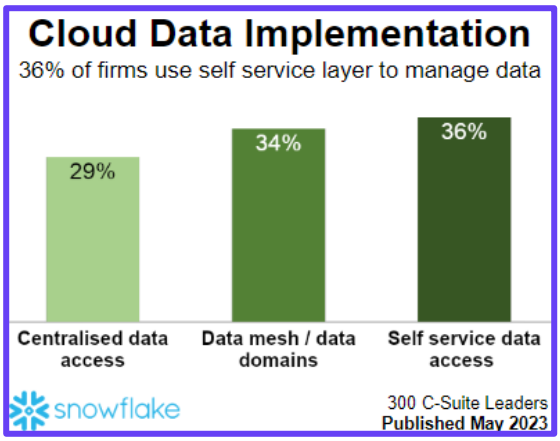

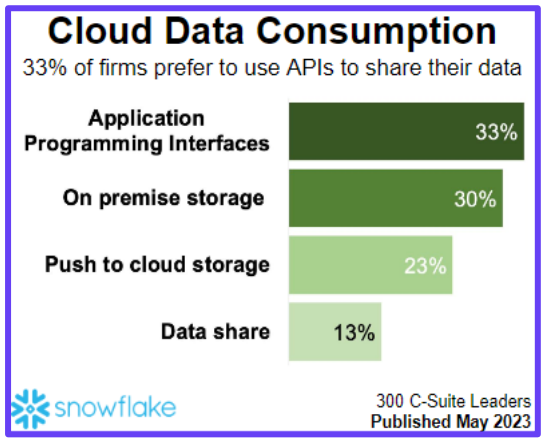

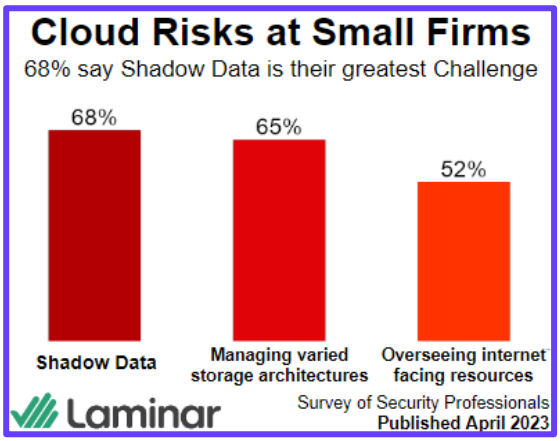

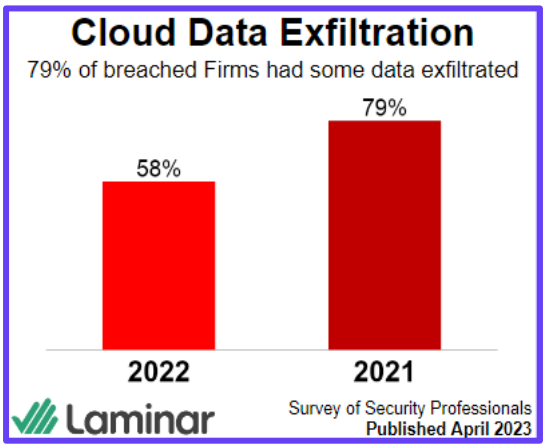

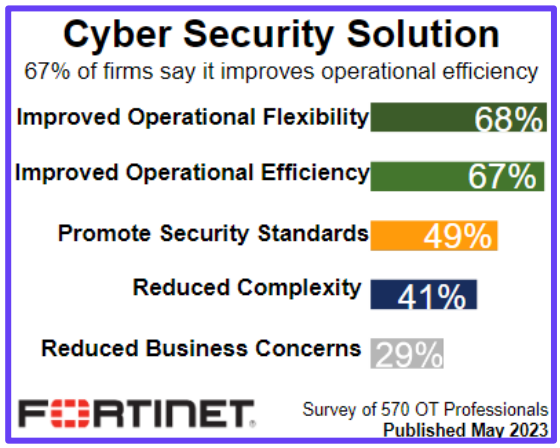

Cyber Insights: *Cyber Resilience*

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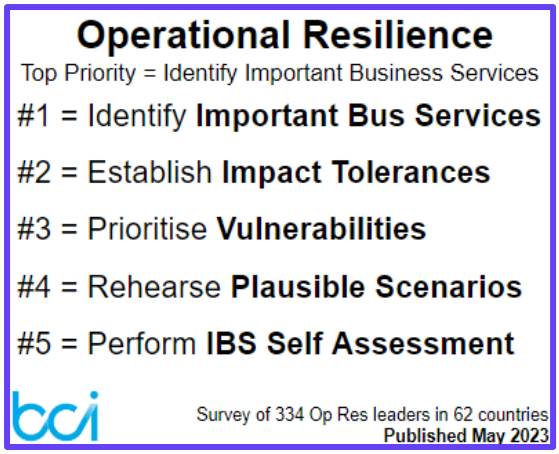

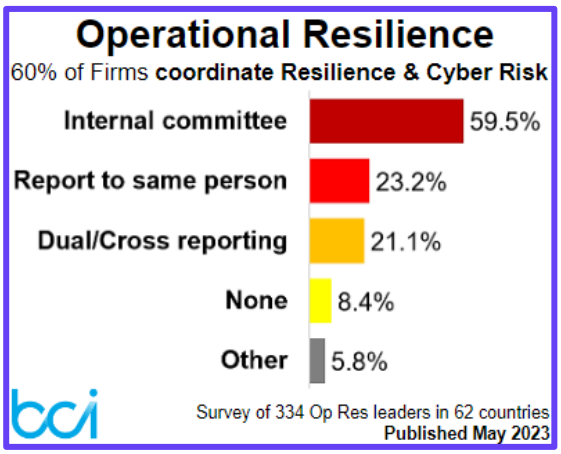

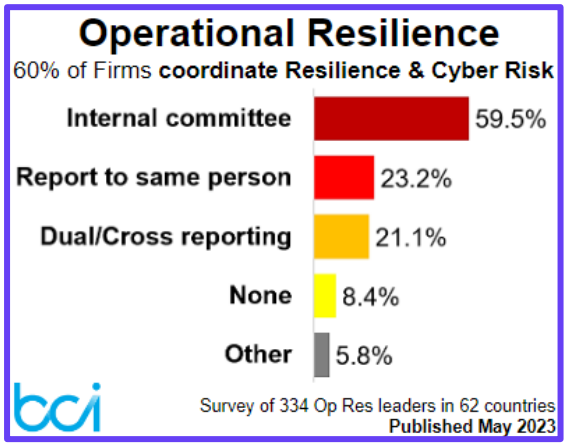

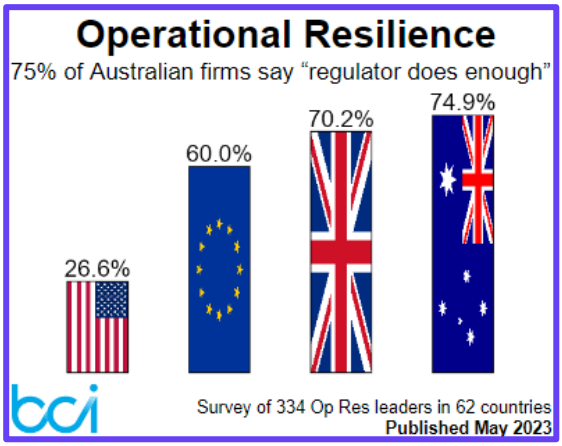

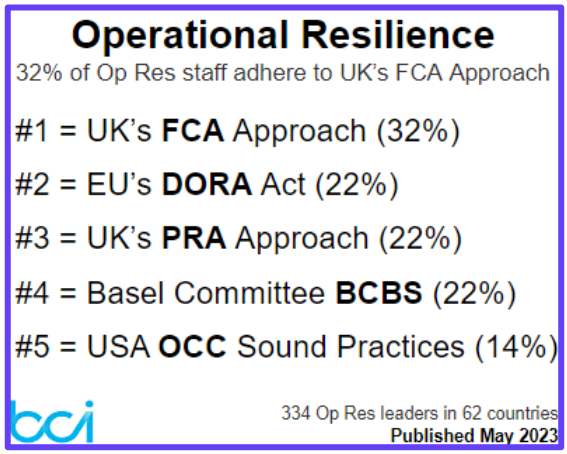

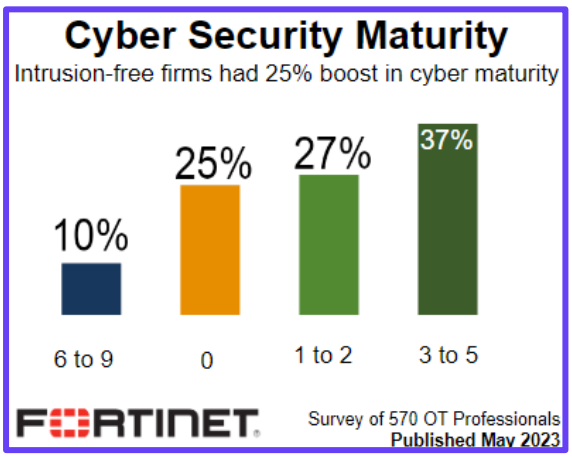

Cyber Insights: *Malware & other Threats*

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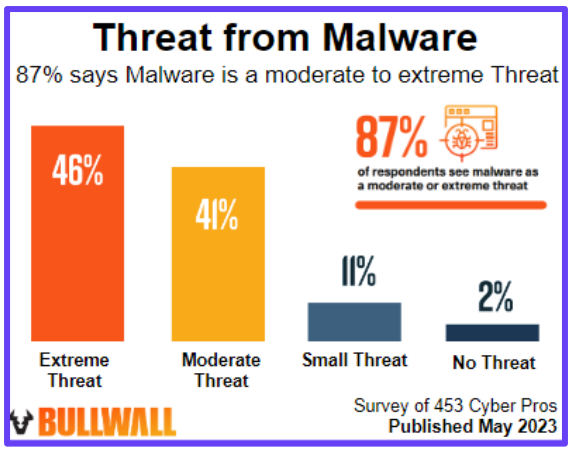

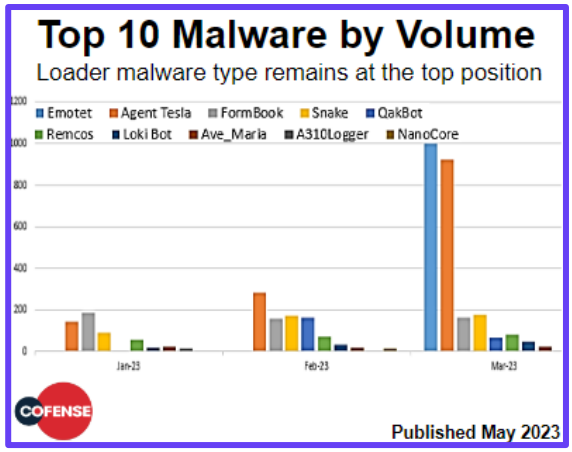

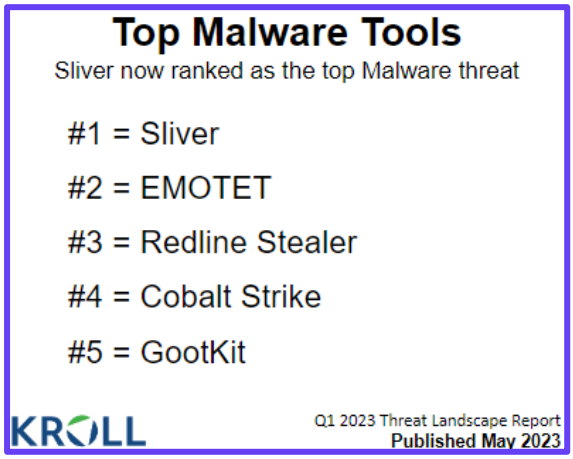

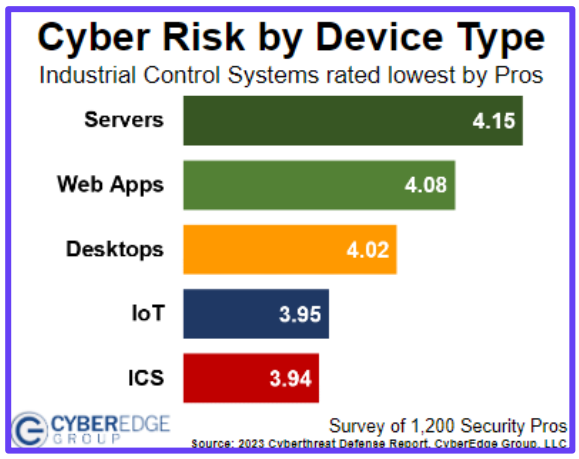

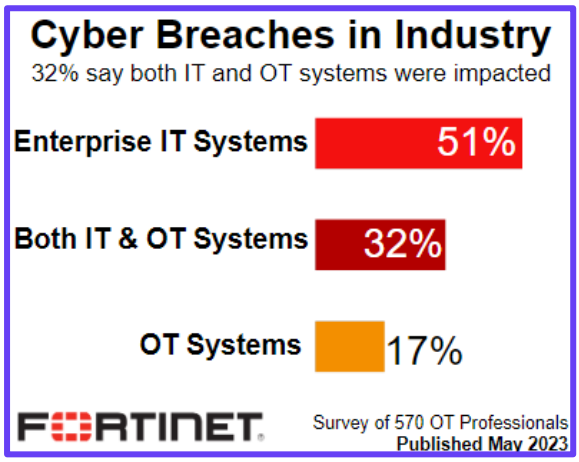

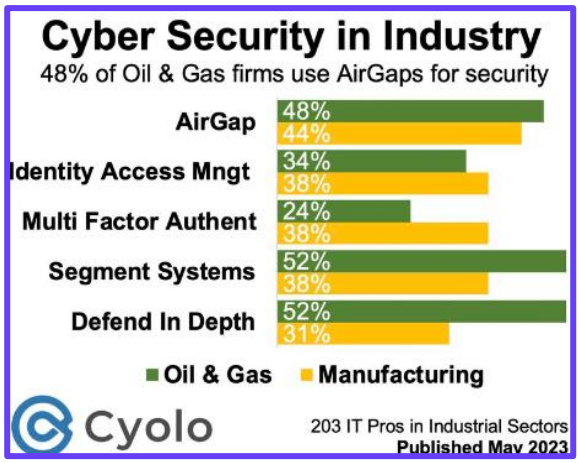

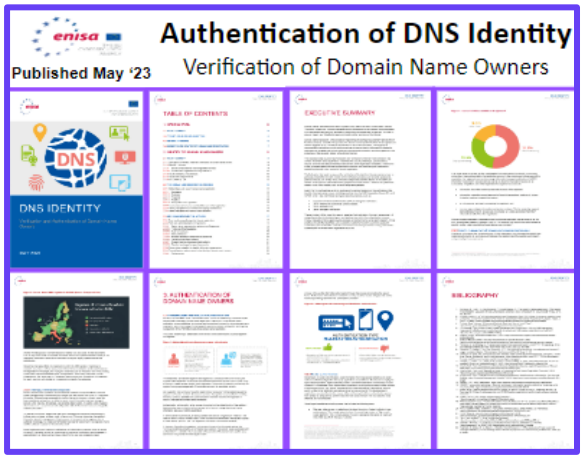

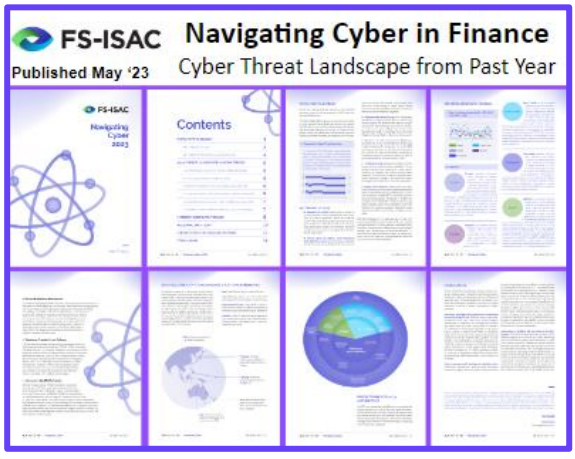

Cyber Insights: *Access Management*

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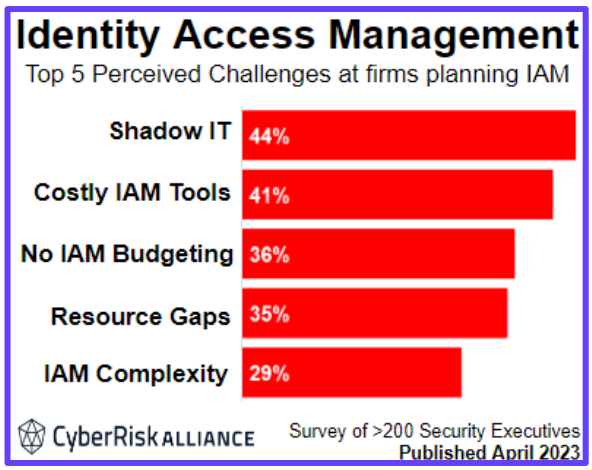

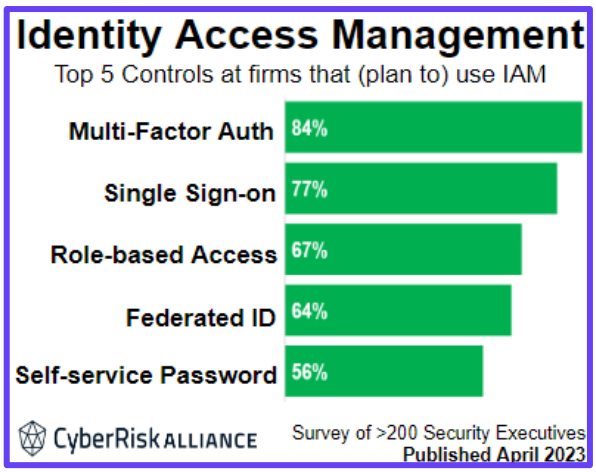

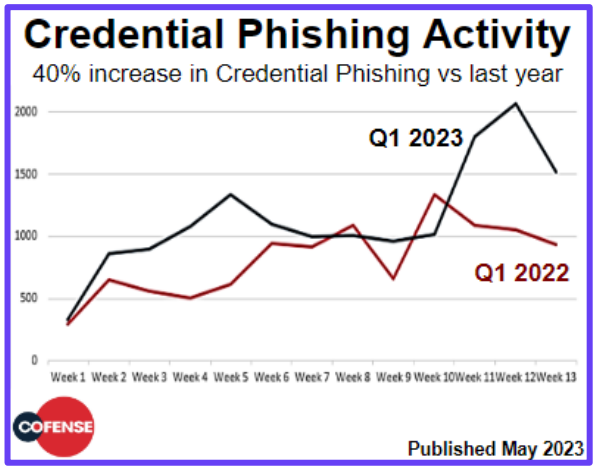

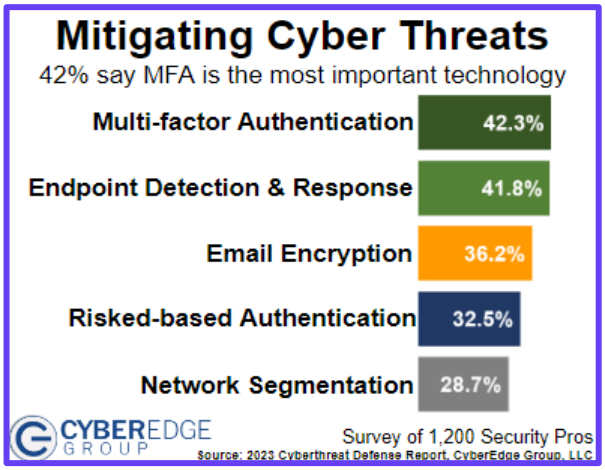

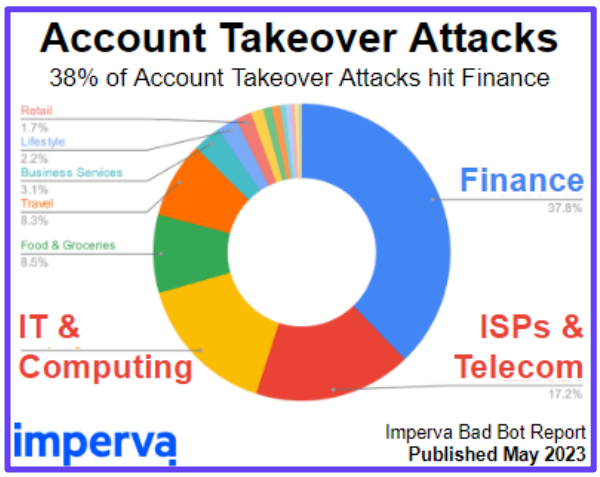

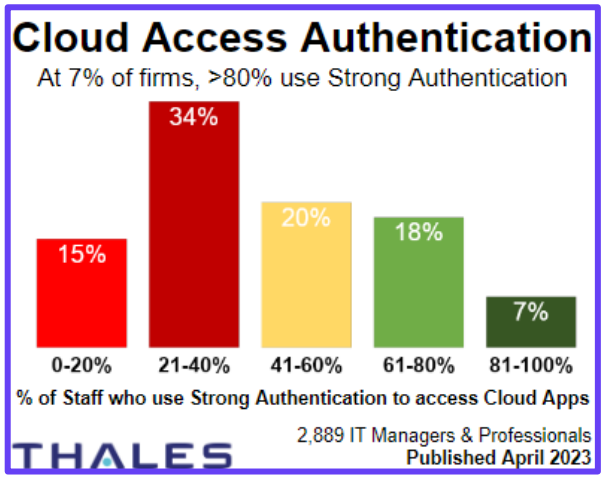

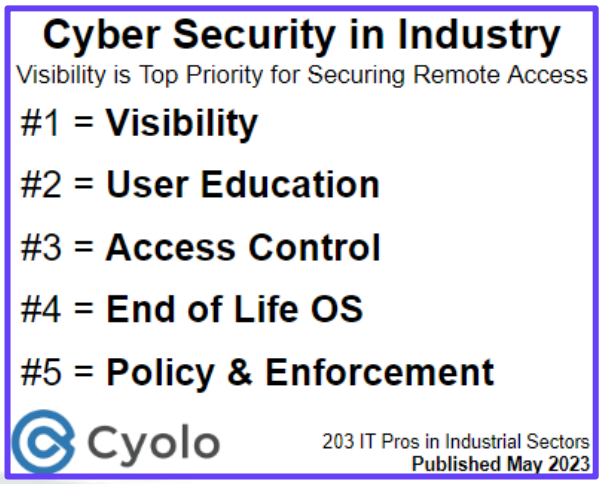

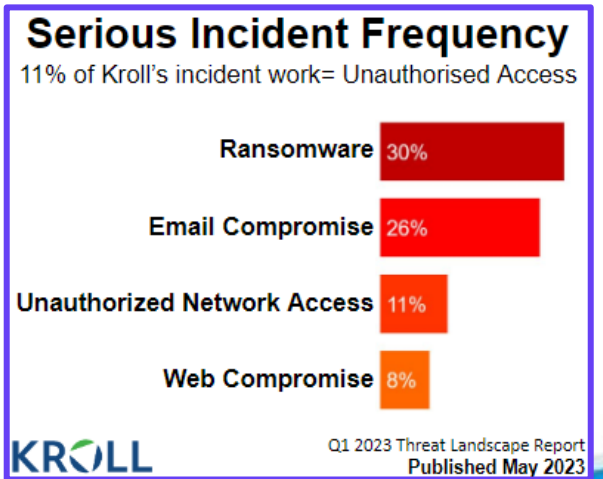

Cyber Insights: *Cyber Fines & Costs*

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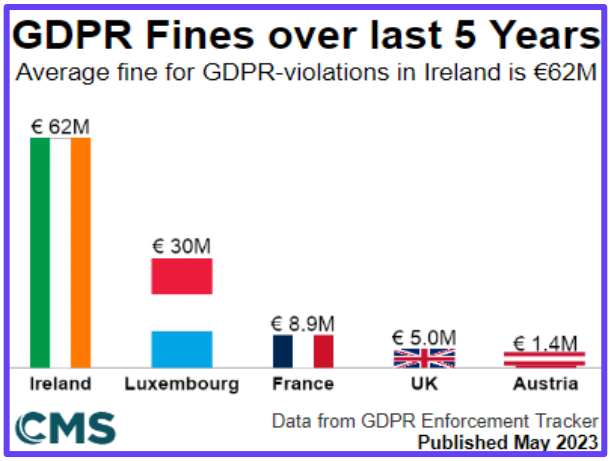

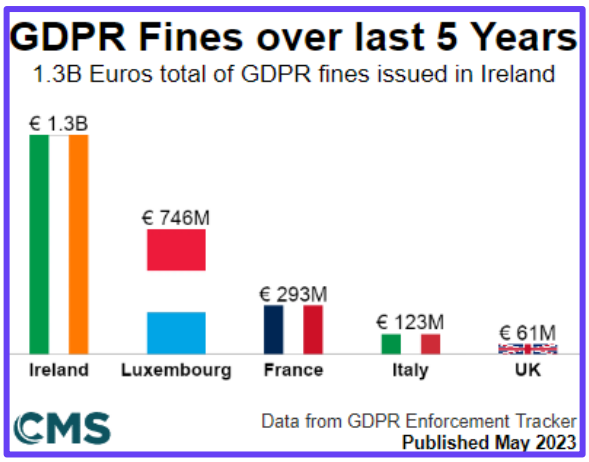

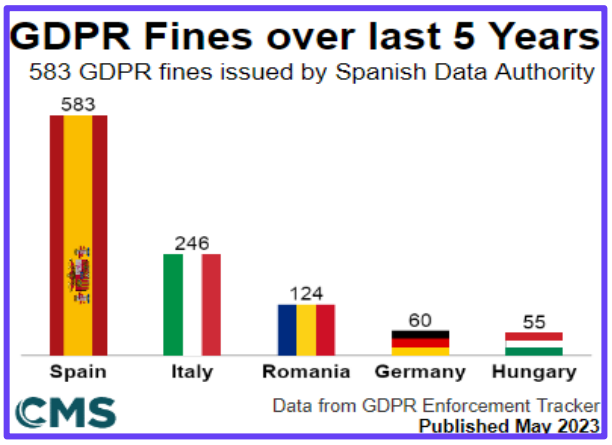

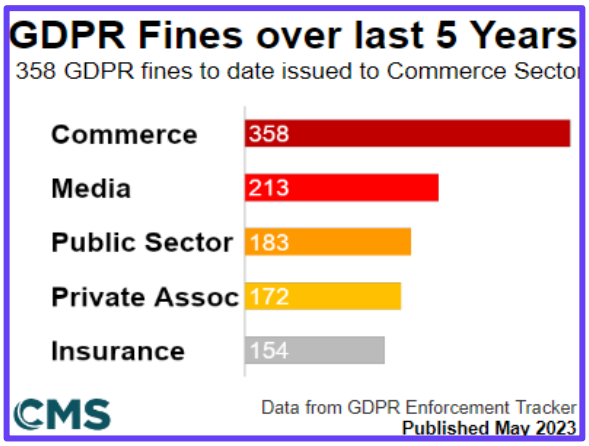

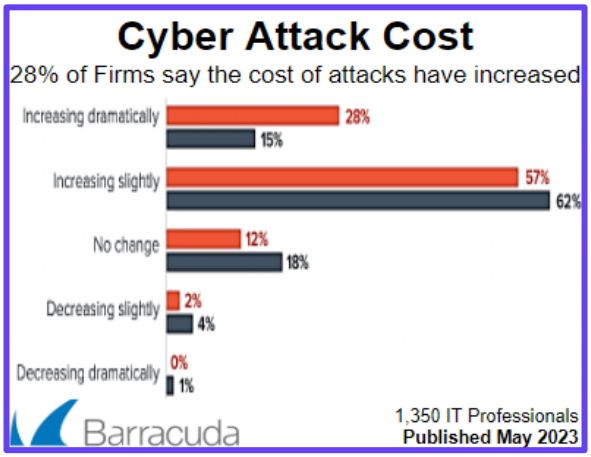

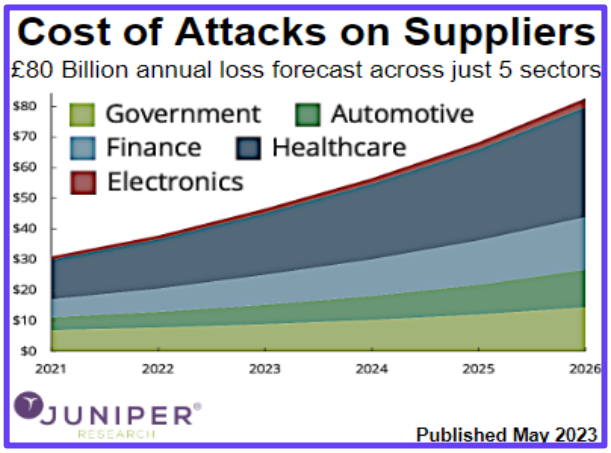

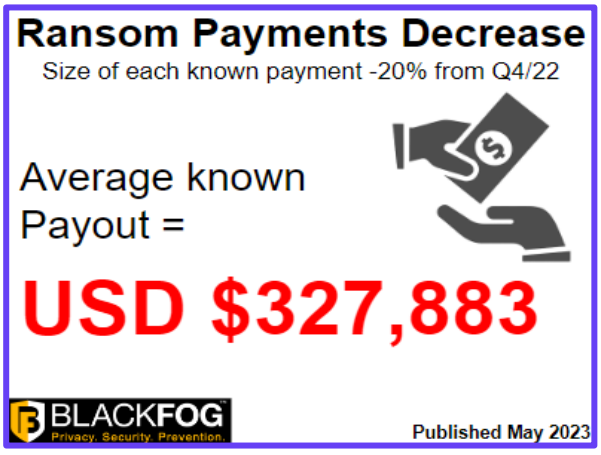

Cyber Insights: *Ransom & Sectors*

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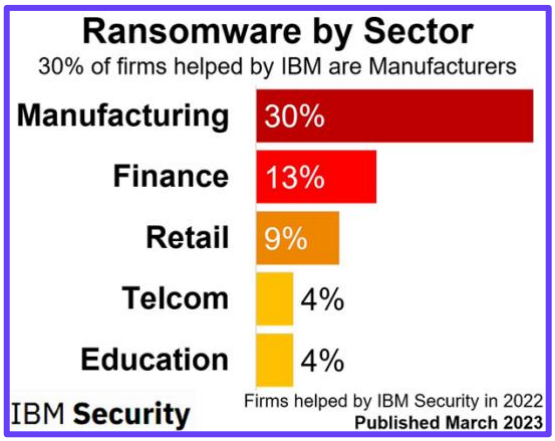

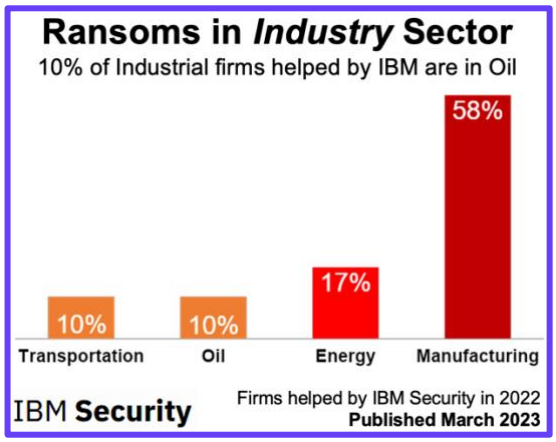

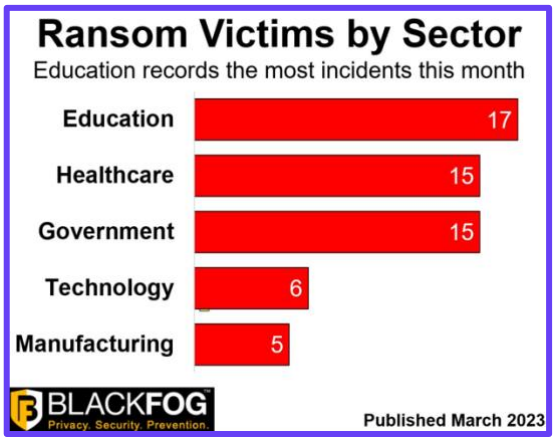

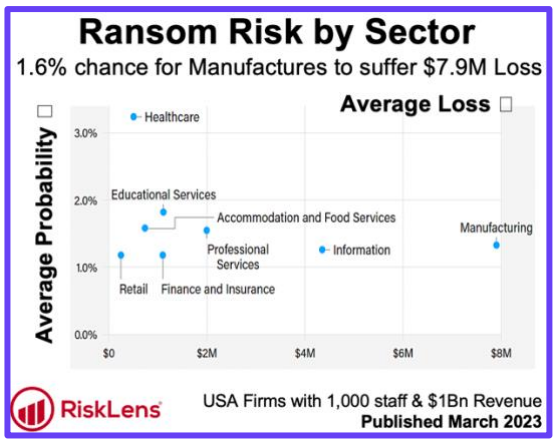

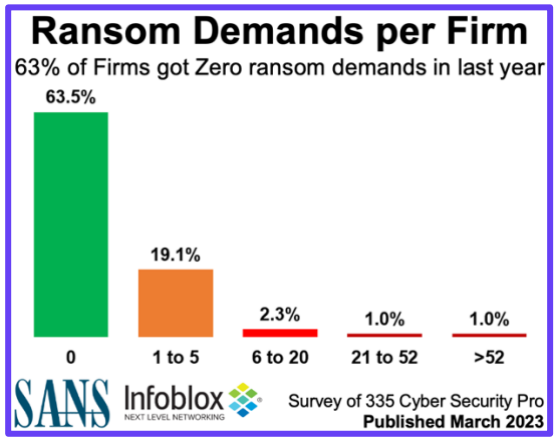

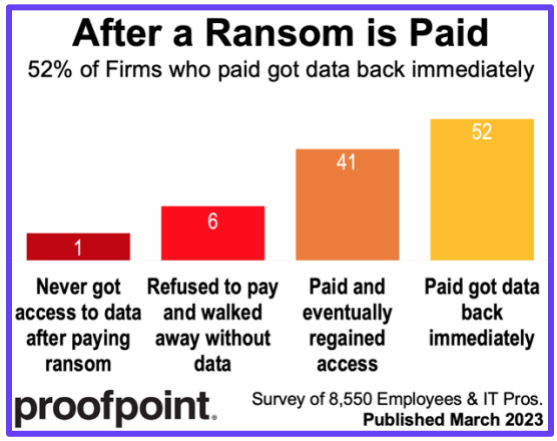

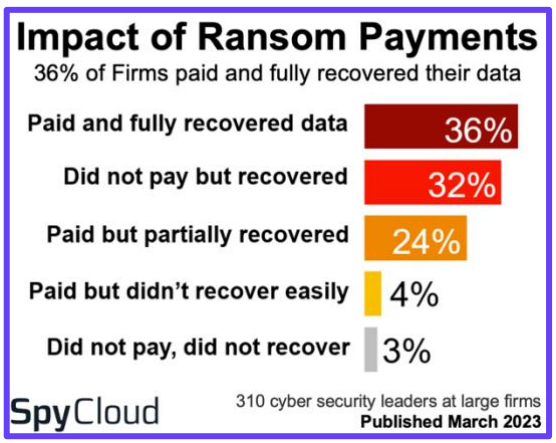

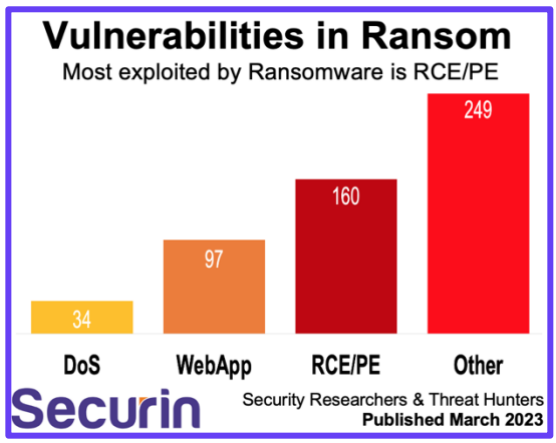

Cyber Insights: *Cyber Risks & Vectors*

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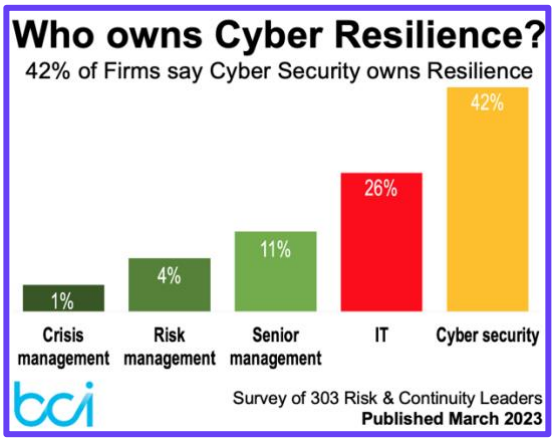

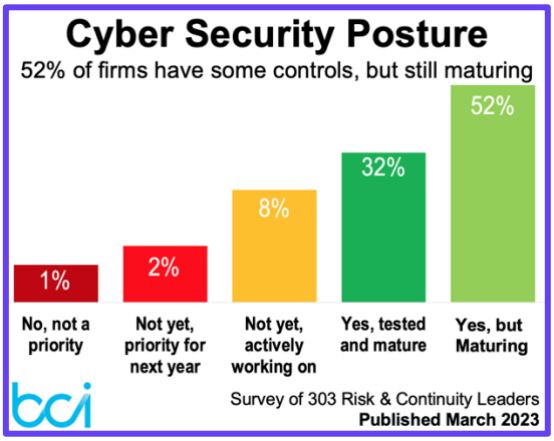

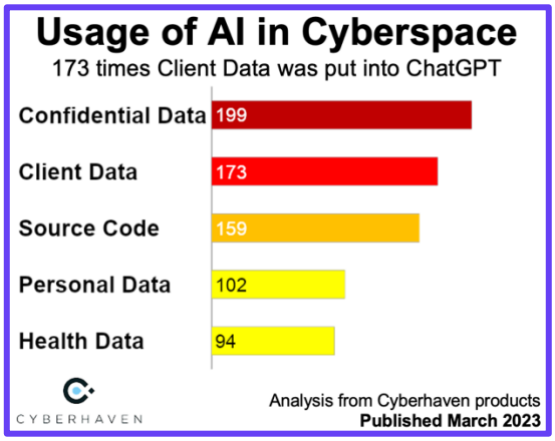

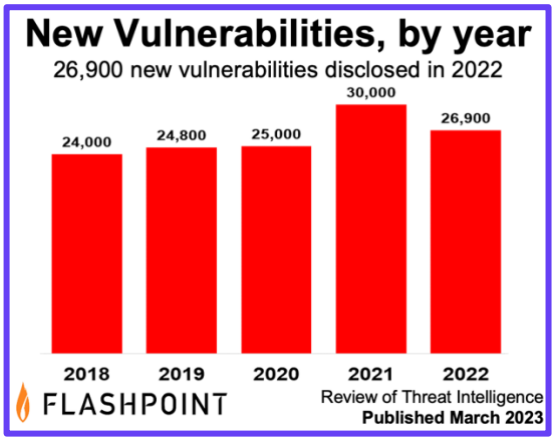

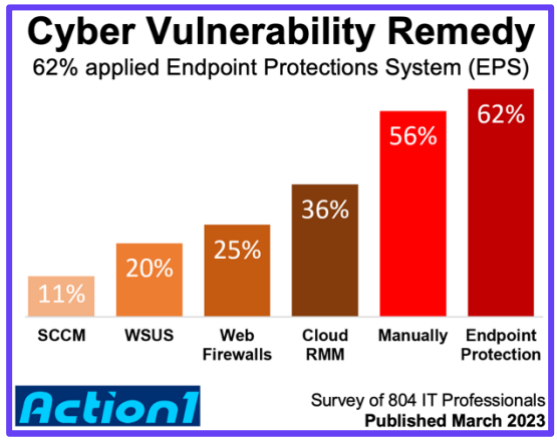

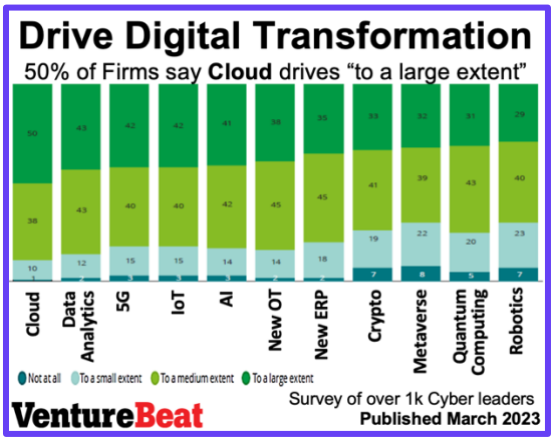

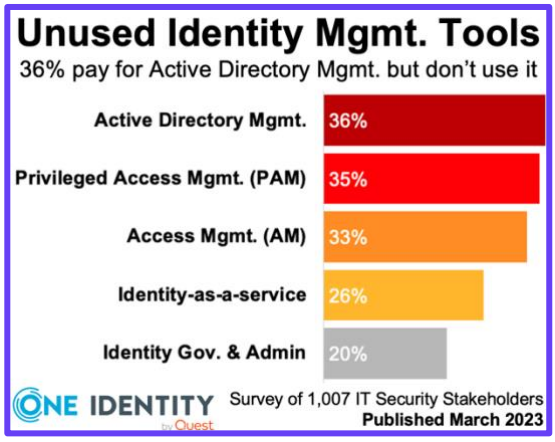

Cyber Insights: *Cyber Finances*

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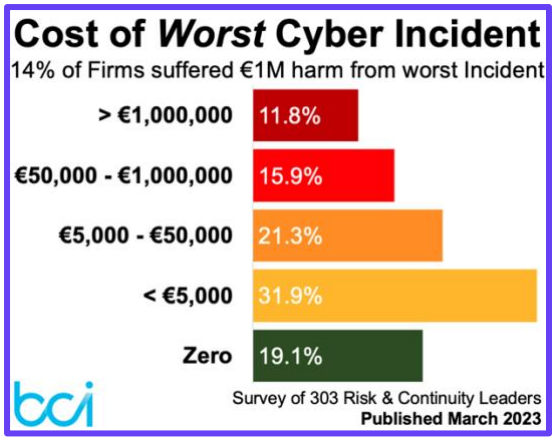

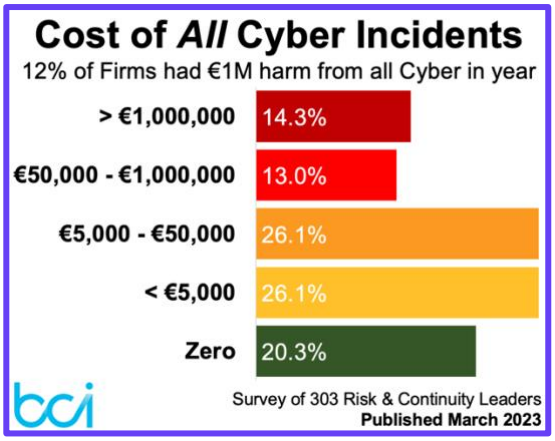

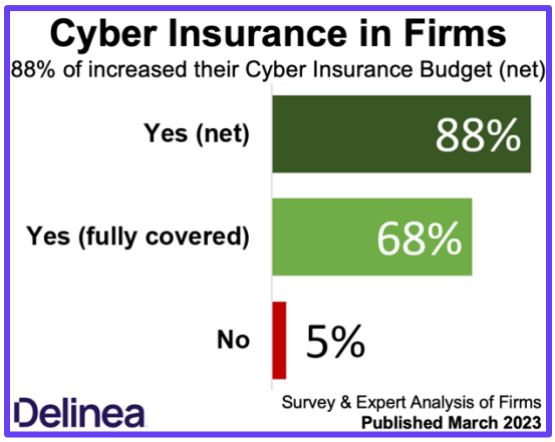

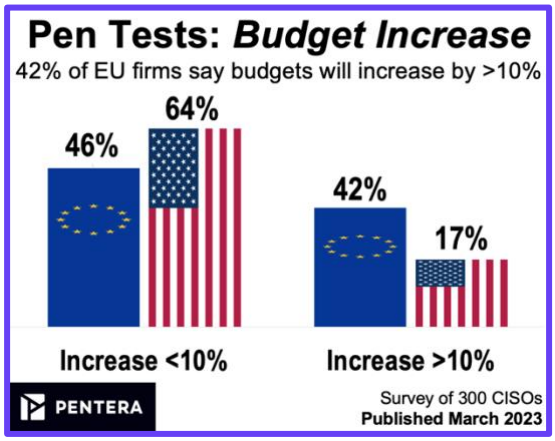

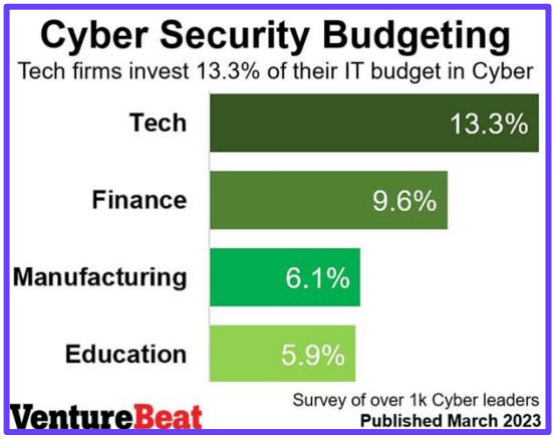

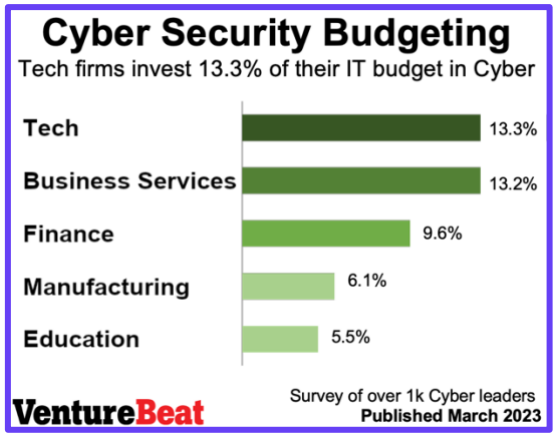

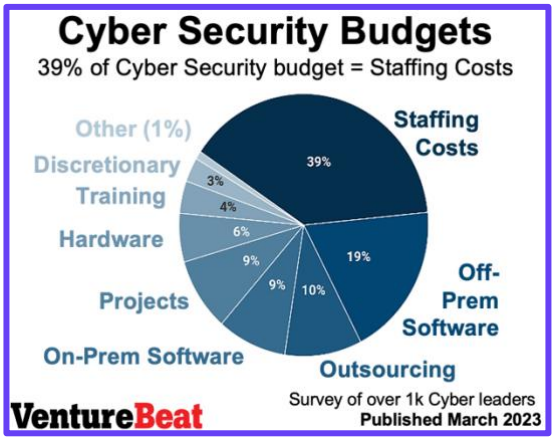

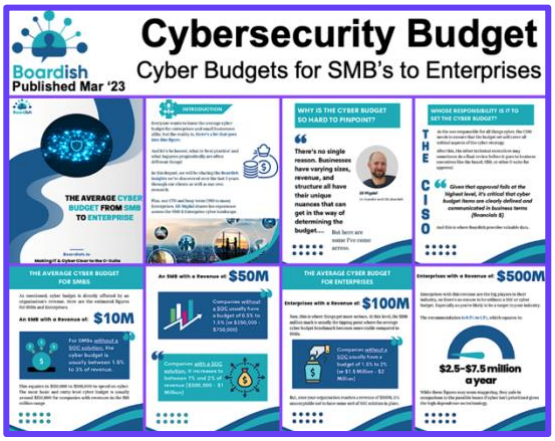

Cyber Insights: *Cyber Insurance*

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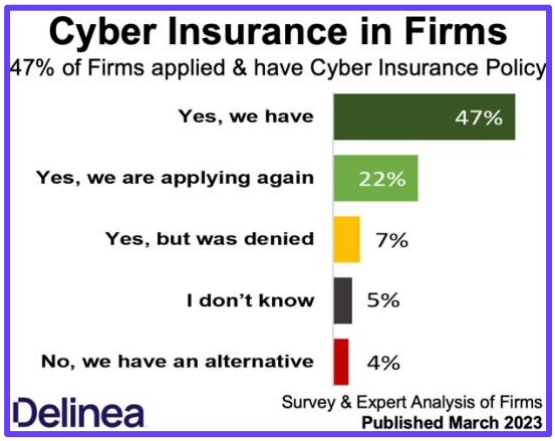

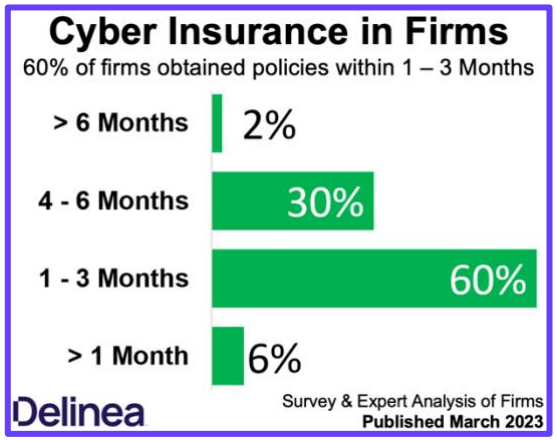

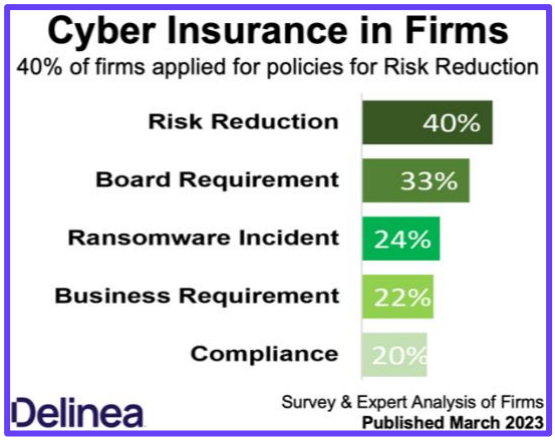

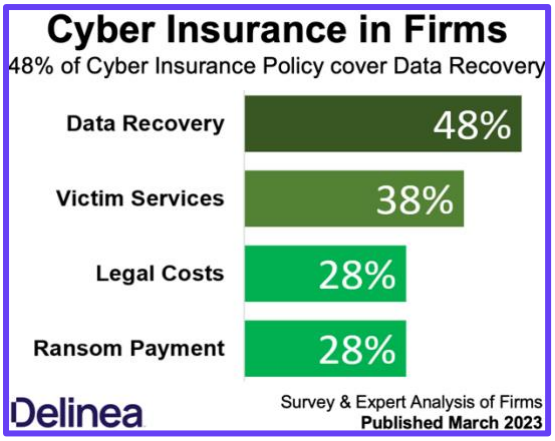

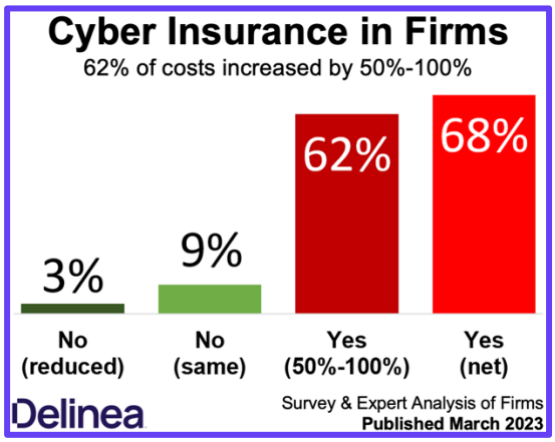

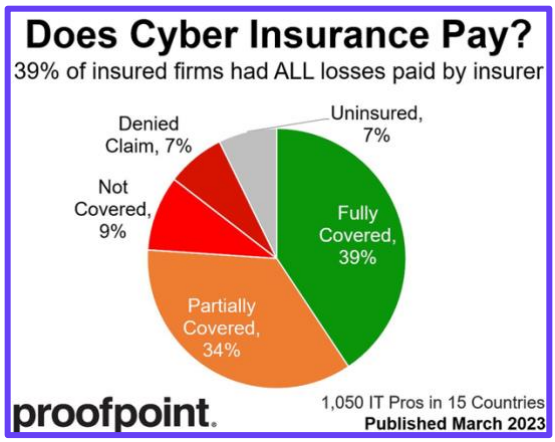

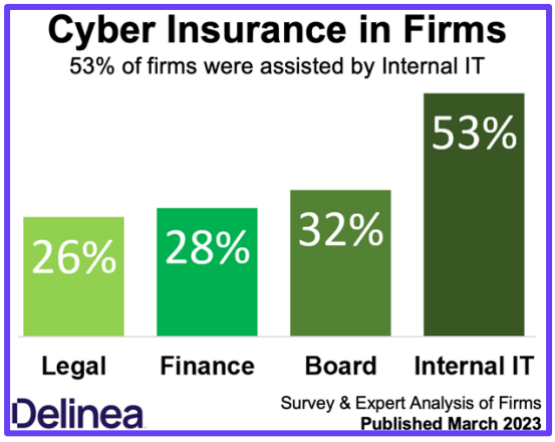

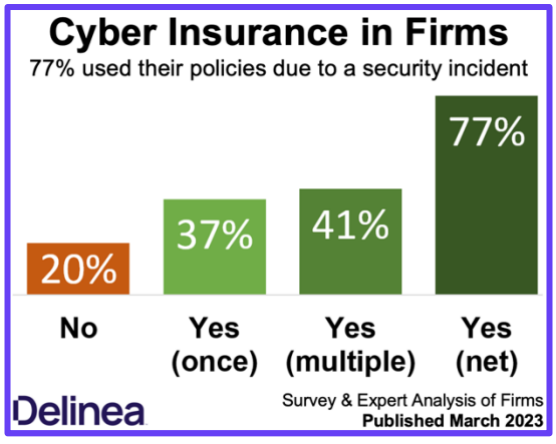

Cyber Insights: *CISOs in Cyber*

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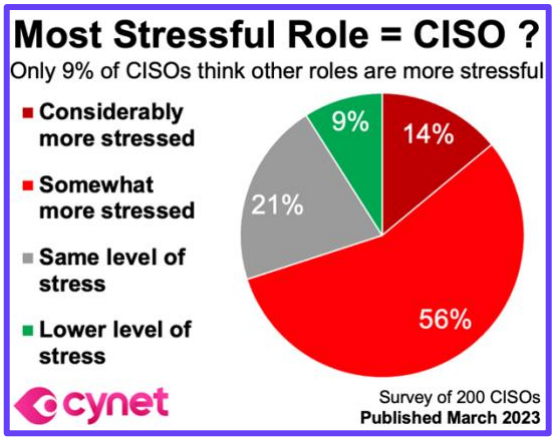

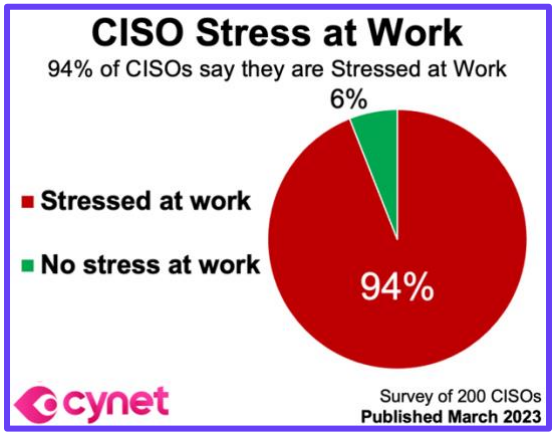

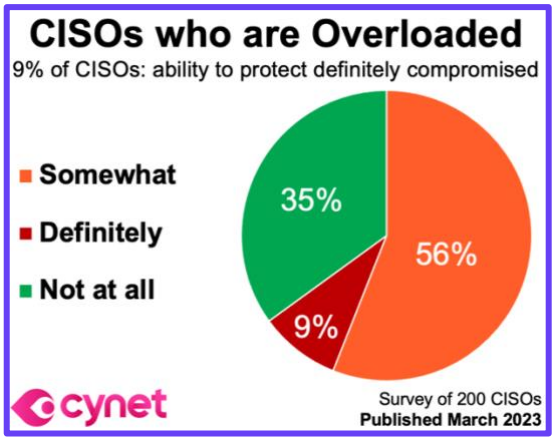

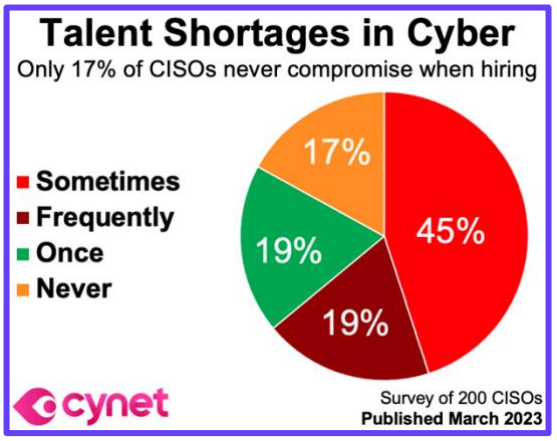

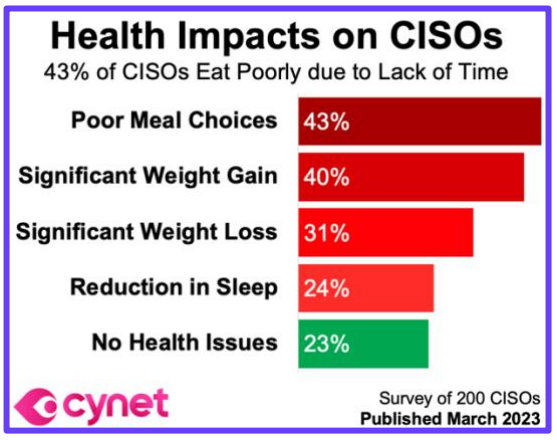

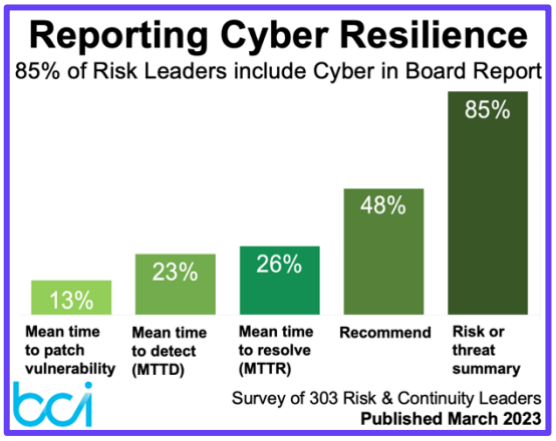

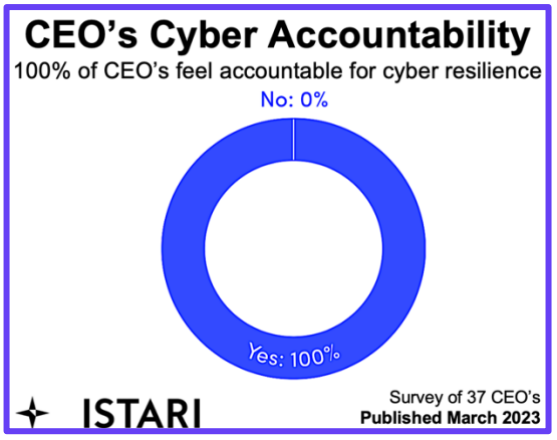

Cyber Insights: *By Country & By Sector*

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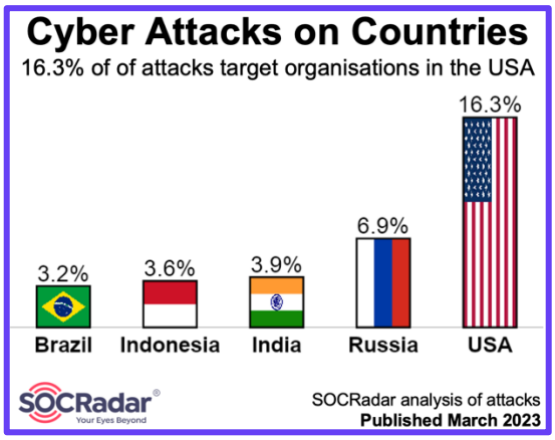

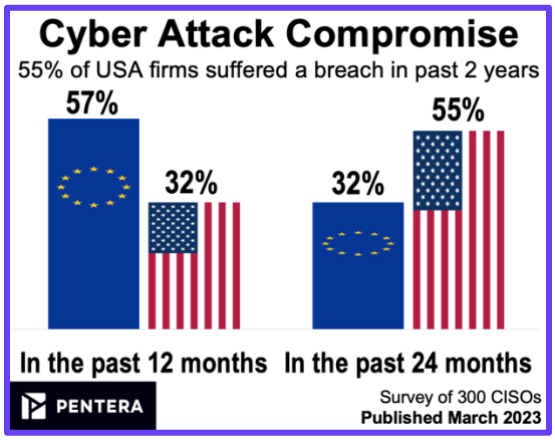

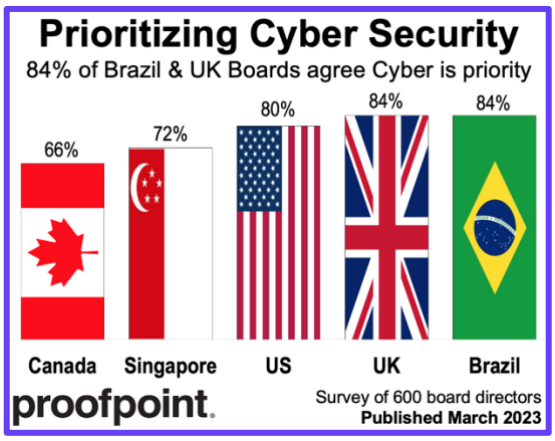

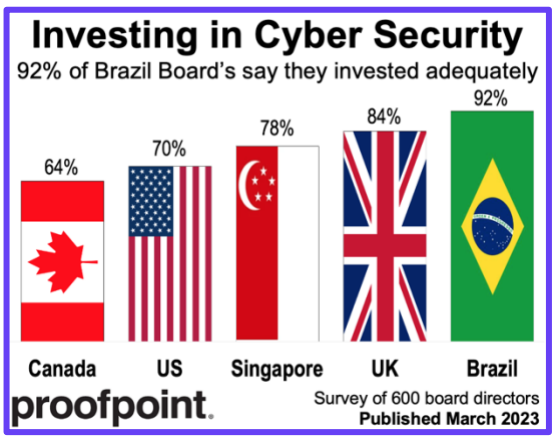

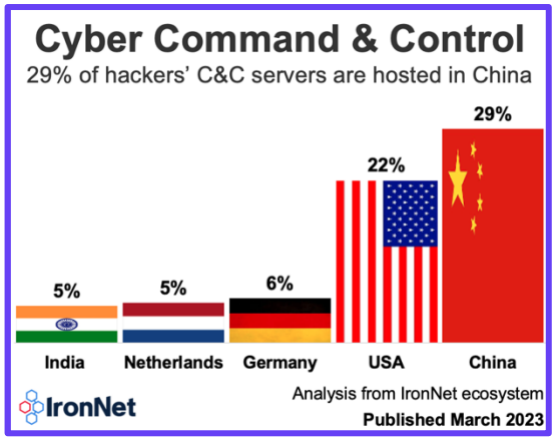

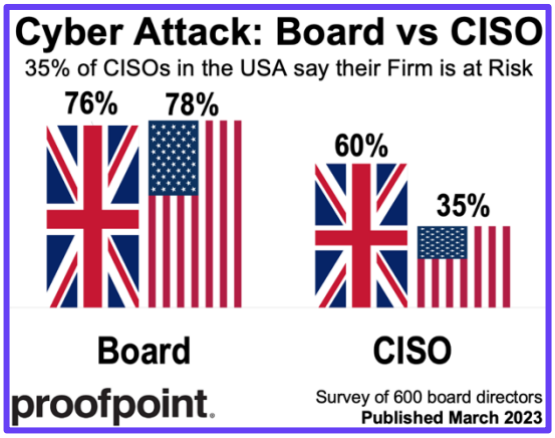

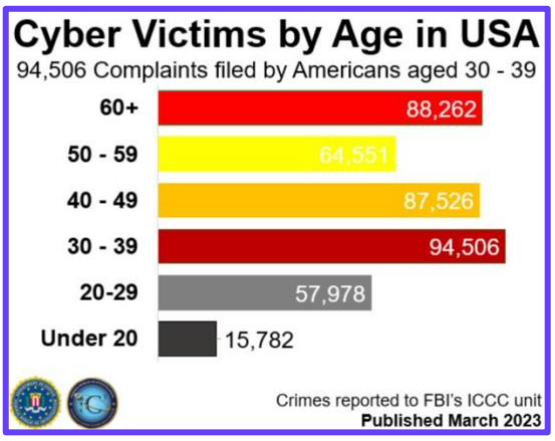

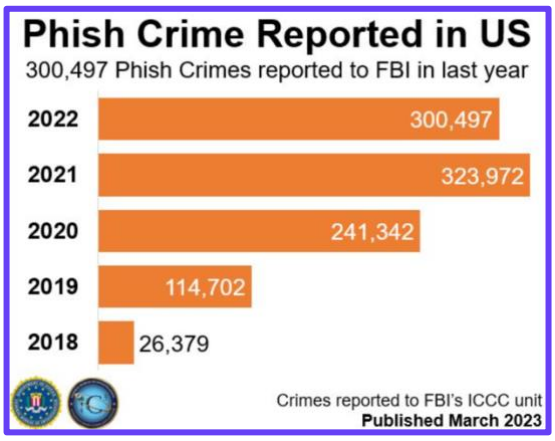

Cyber Insights: *Government*

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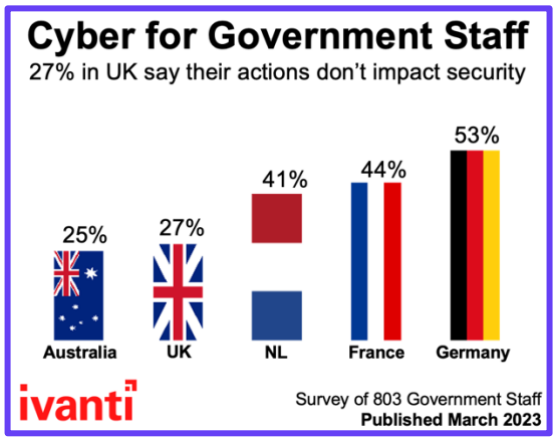

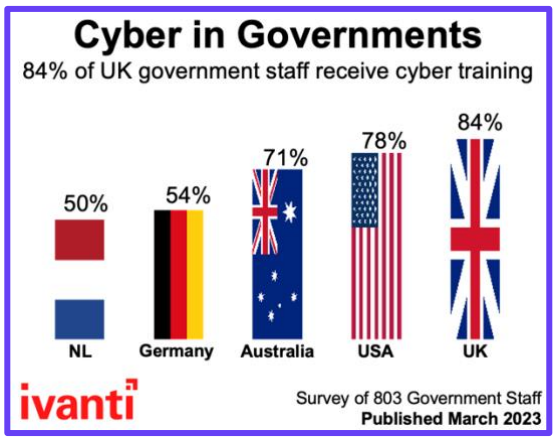

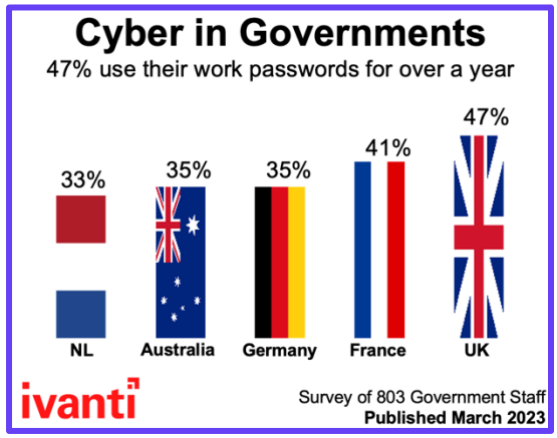

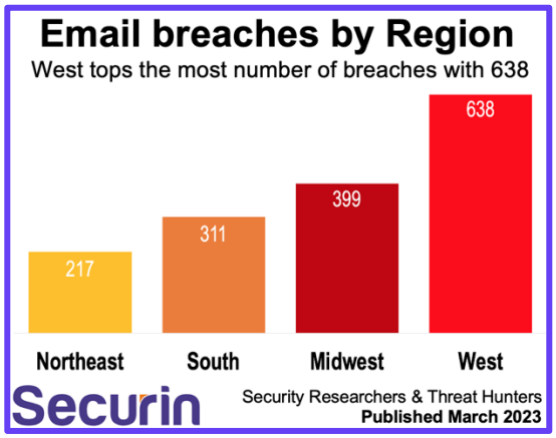

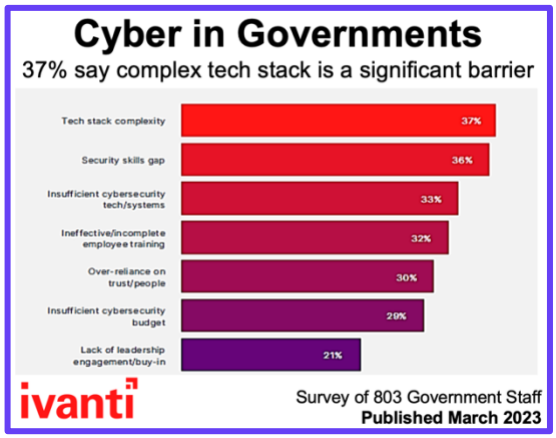

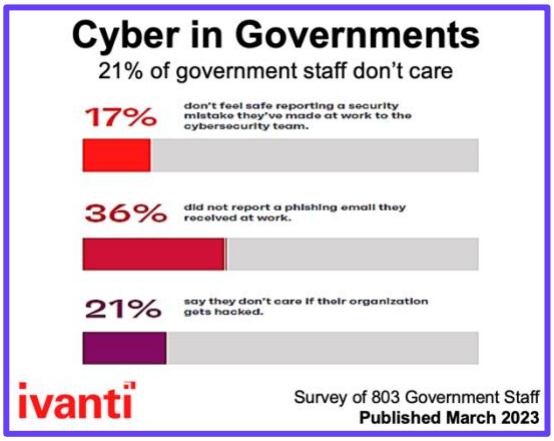

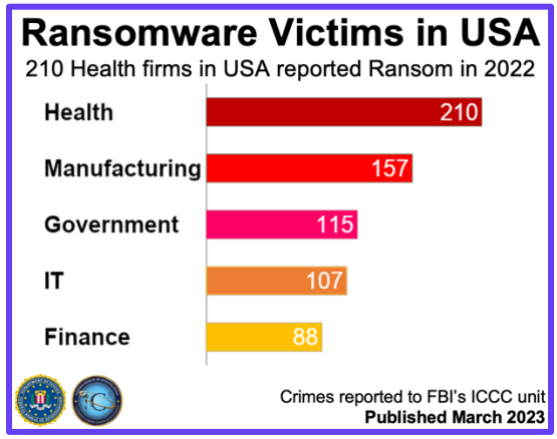

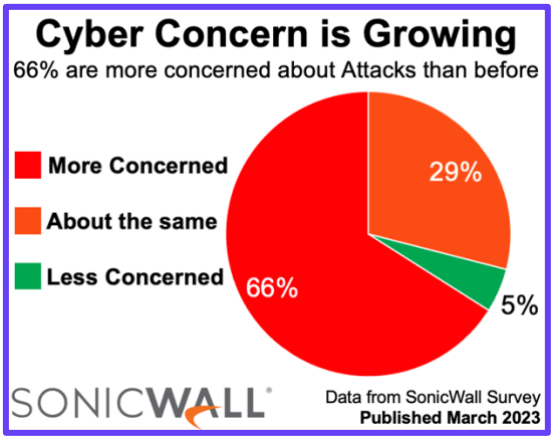

Cyber Insights: *Consolidation & Mitigation*

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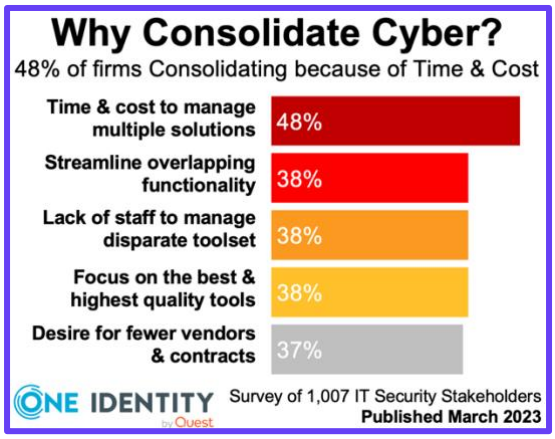

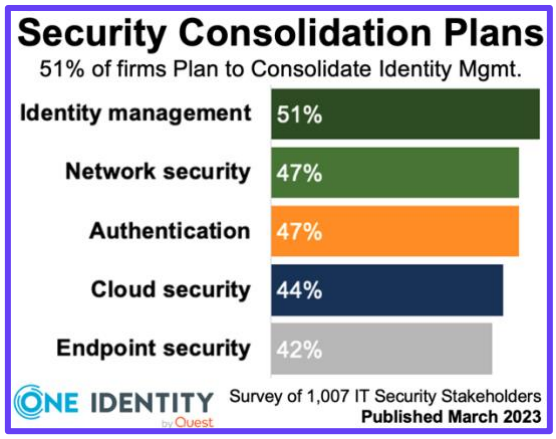

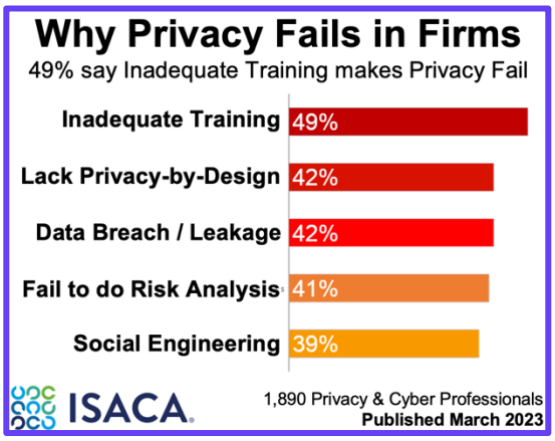

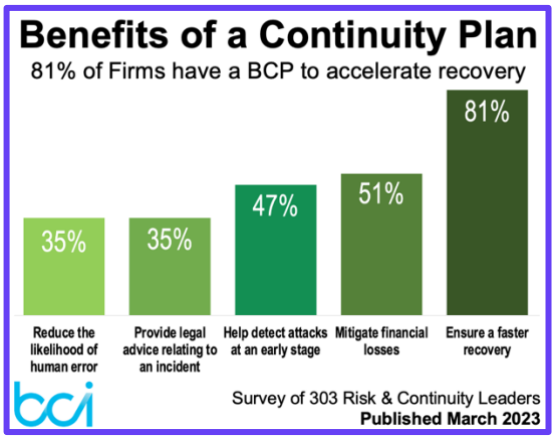

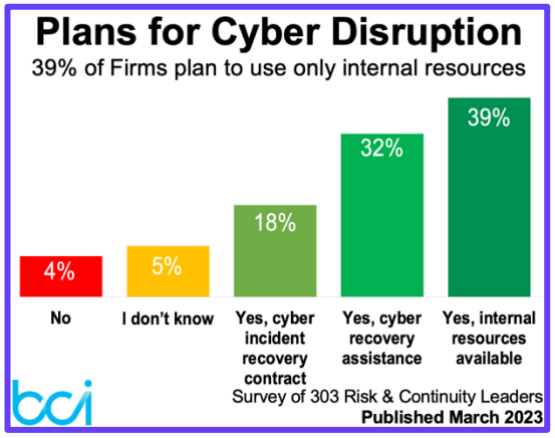

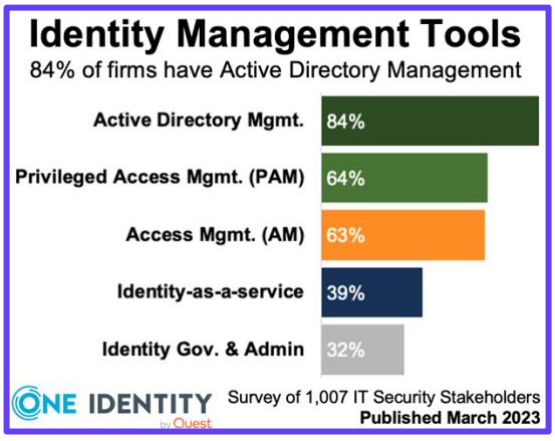

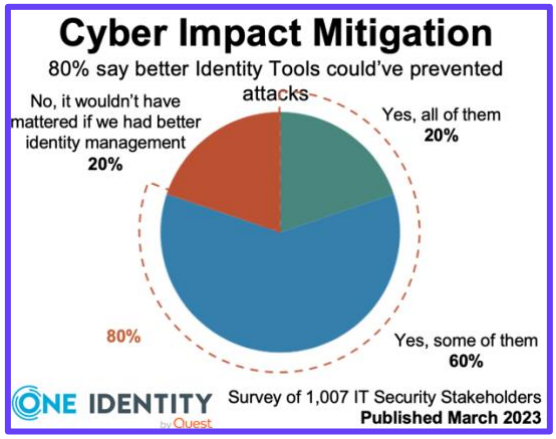

Cyber Insights: *Cyber Risk in Sectors*

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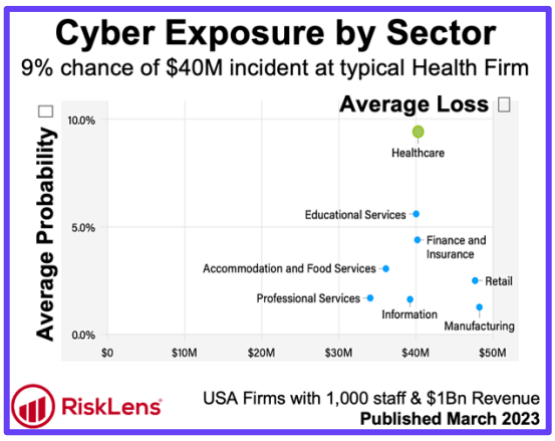

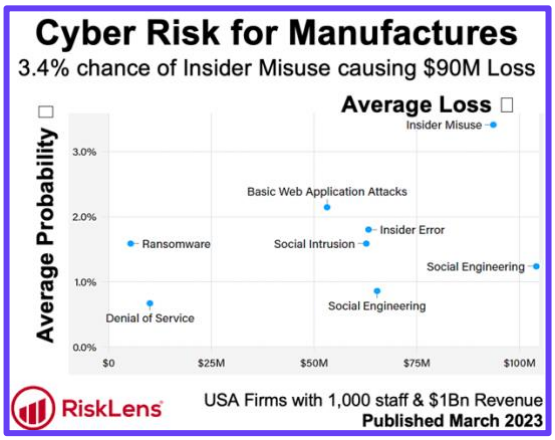

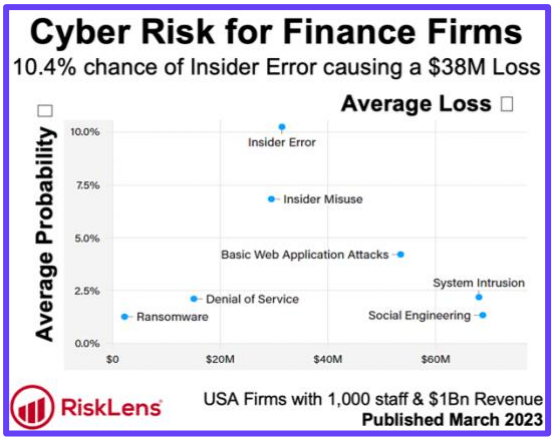

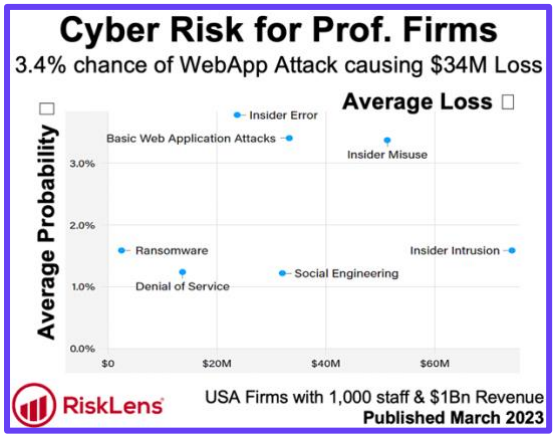

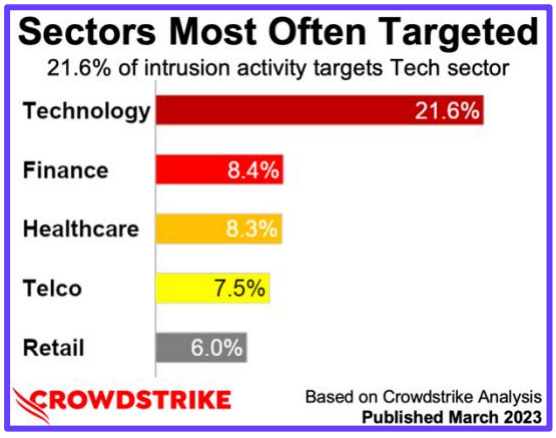

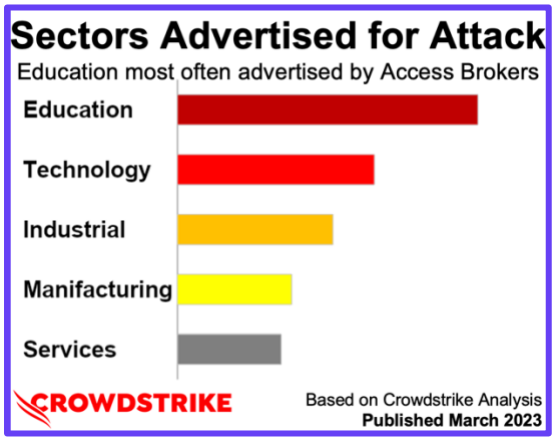

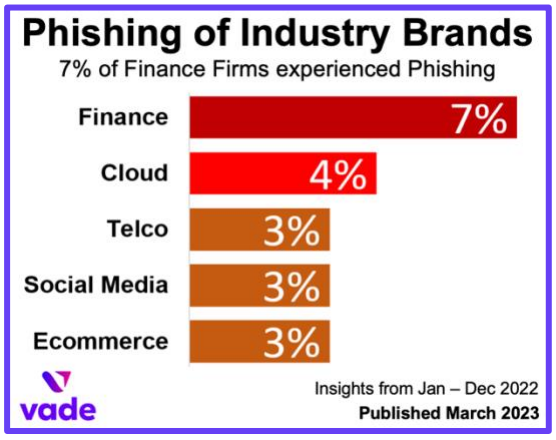

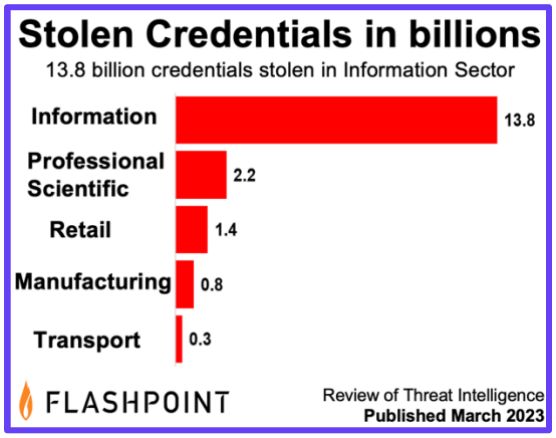

Cyber Insights: *Cyber Initial Vectors*

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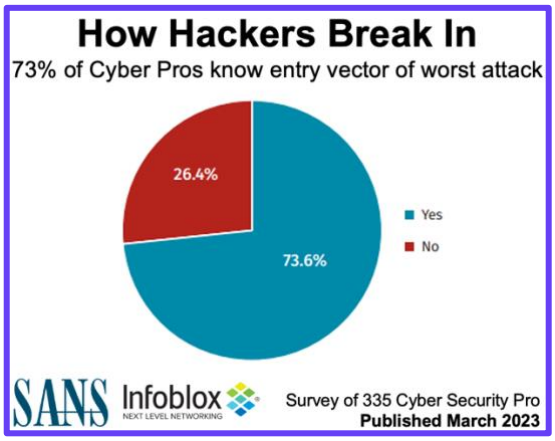

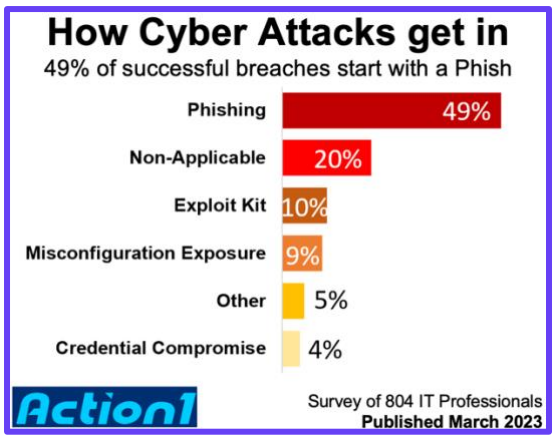

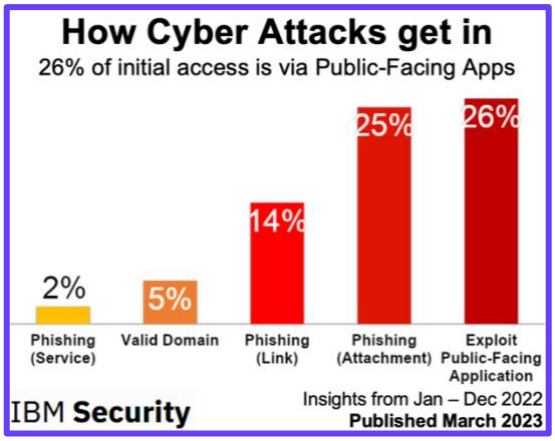

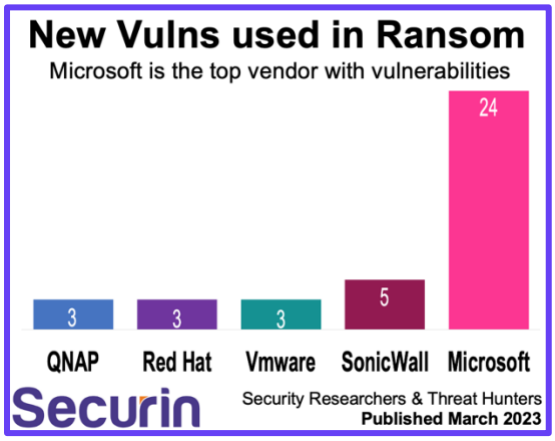

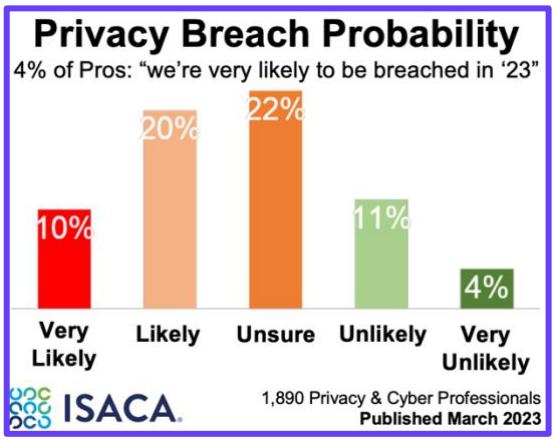

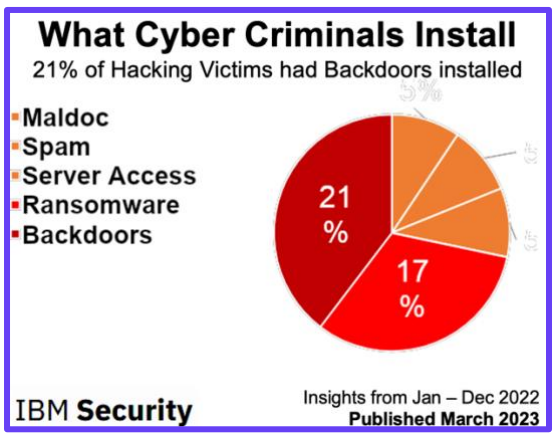

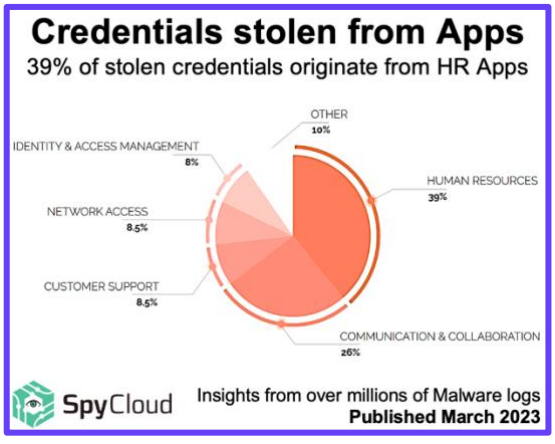

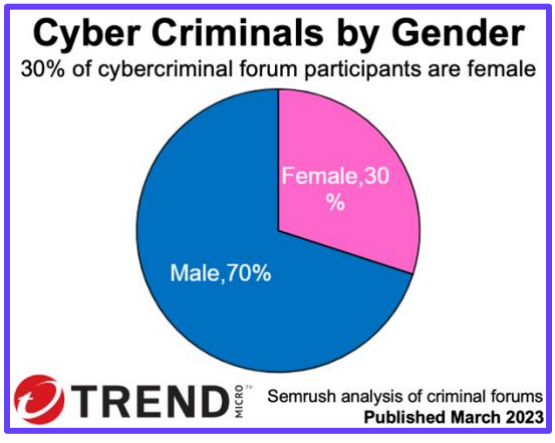

Cyber Insights: *Cyber Disruption*

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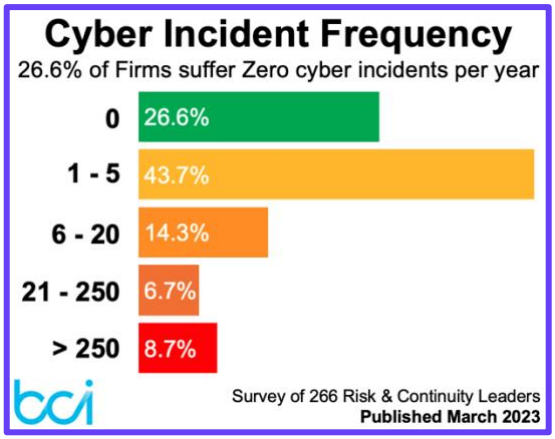

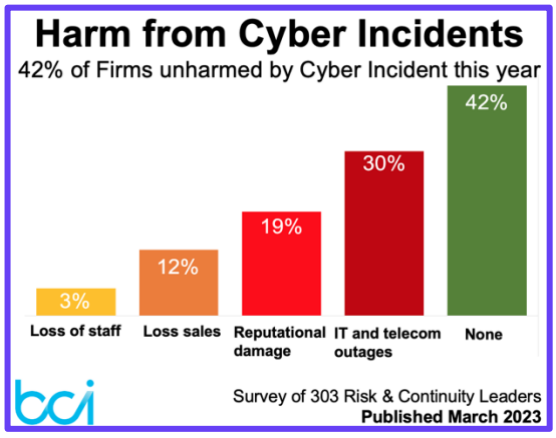

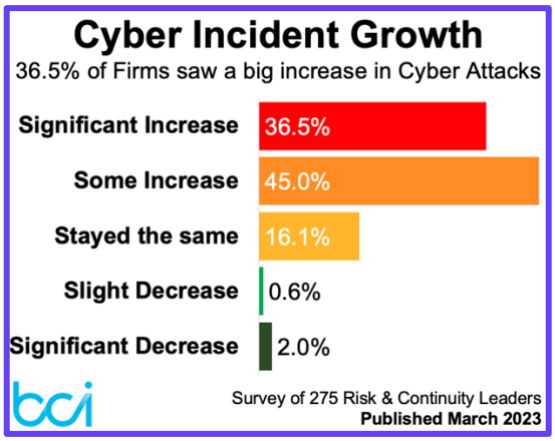

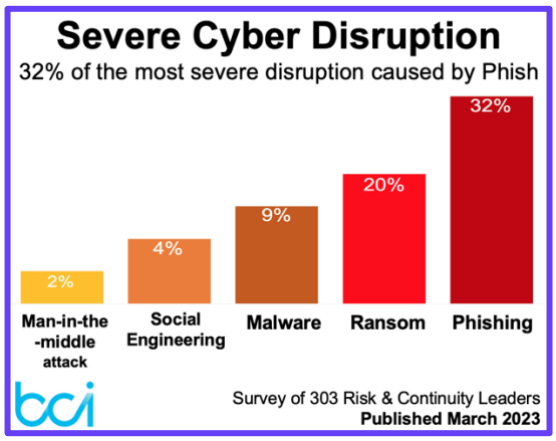

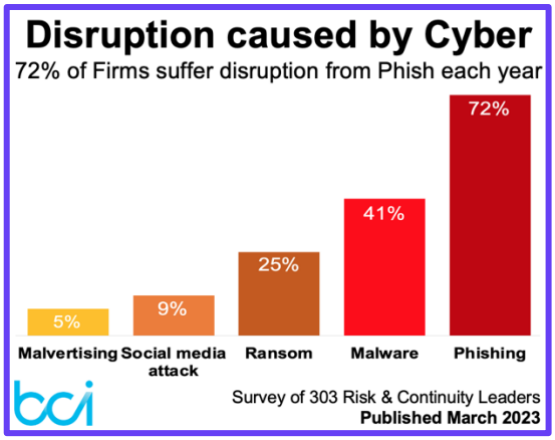

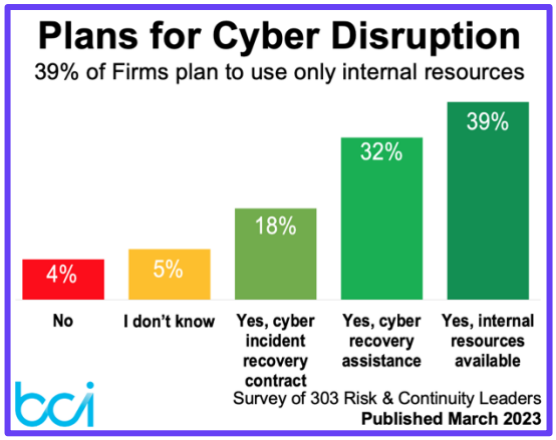

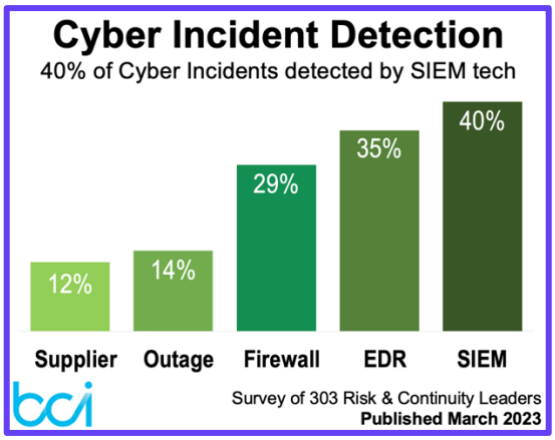

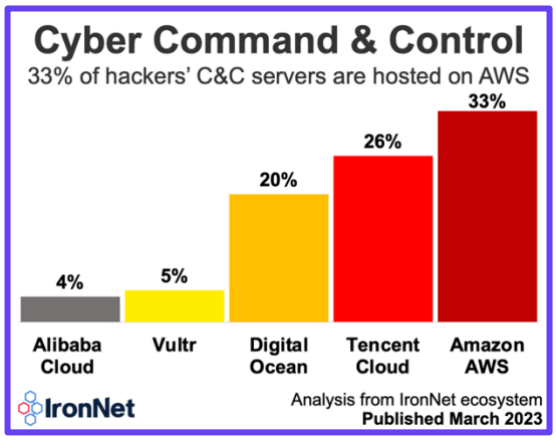

Cyber Insights: *Phishing*

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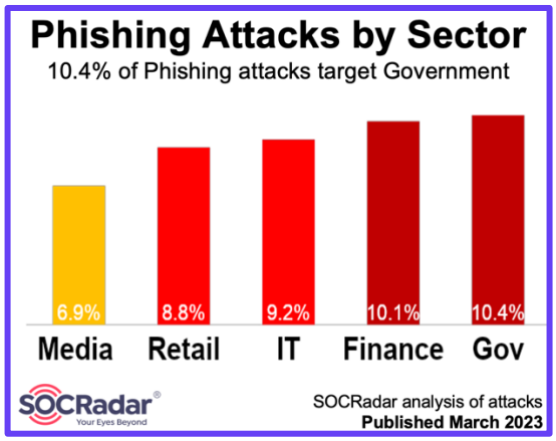

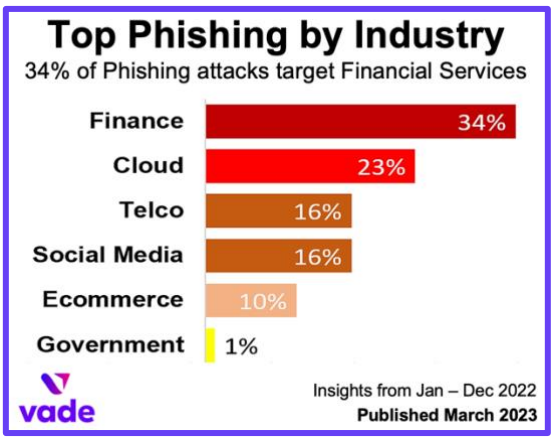

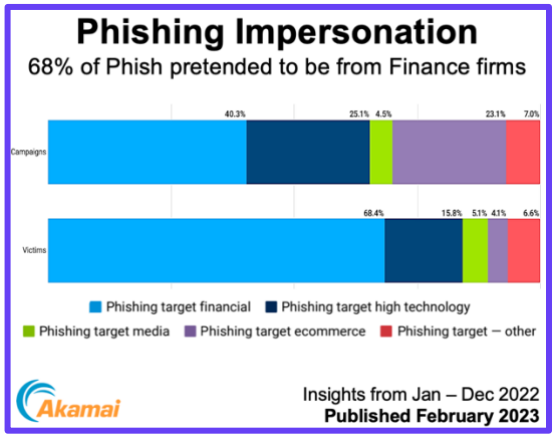

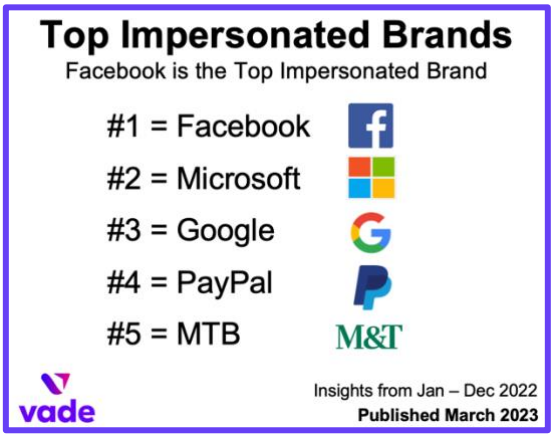

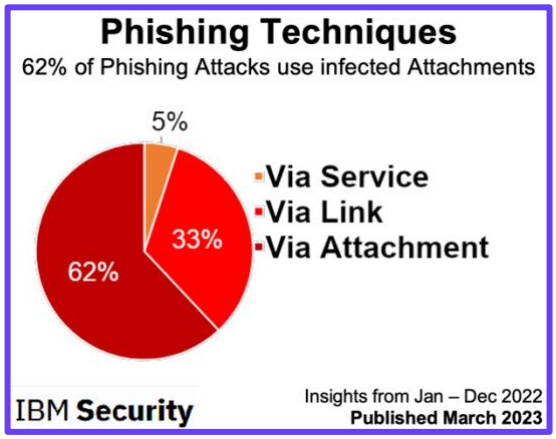

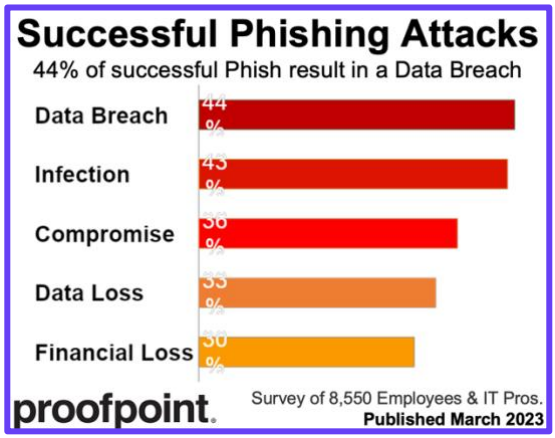

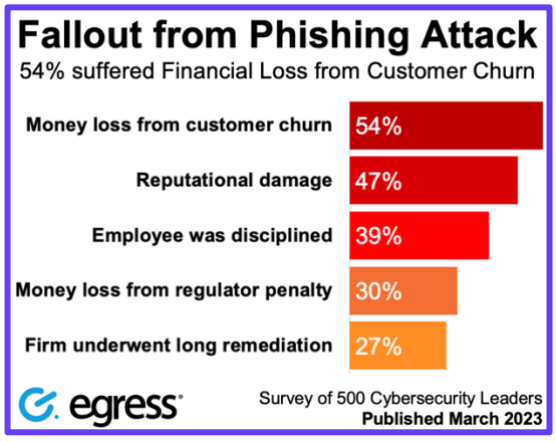

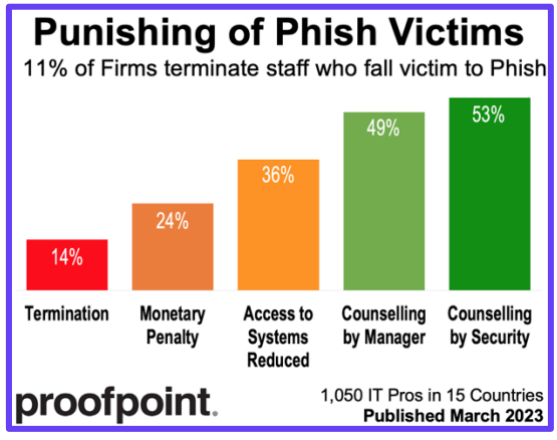

Cyber Insights: *Phish & Attacks*

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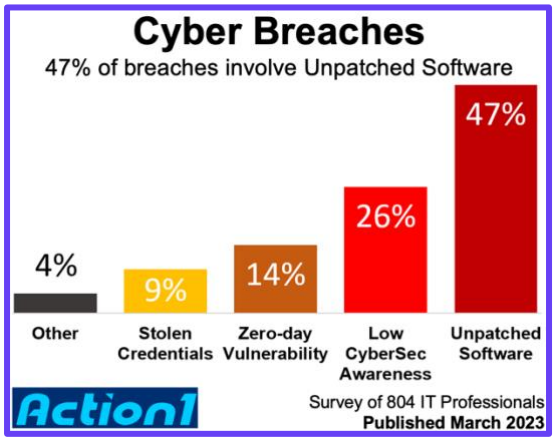

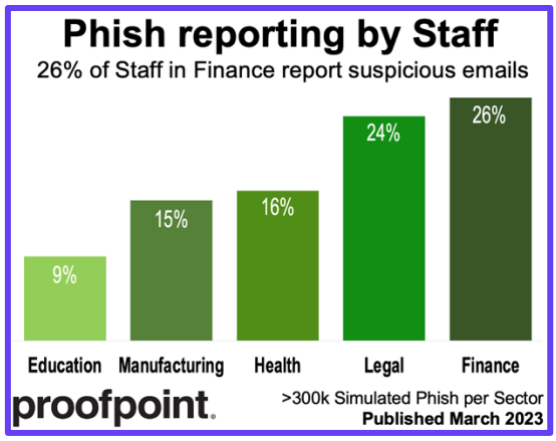

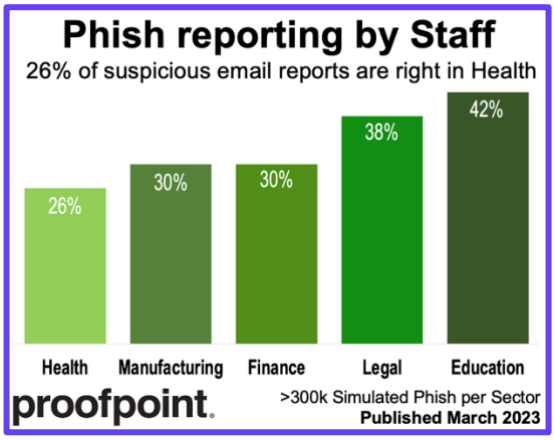

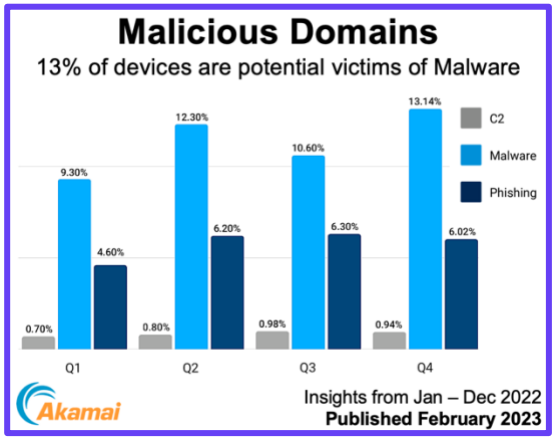

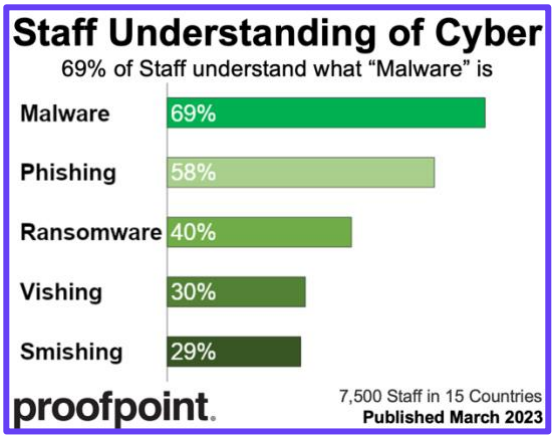

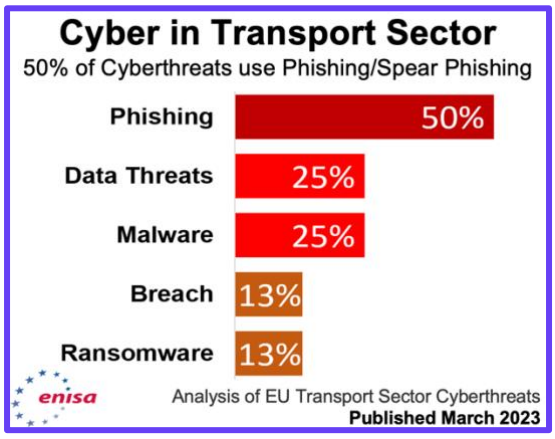

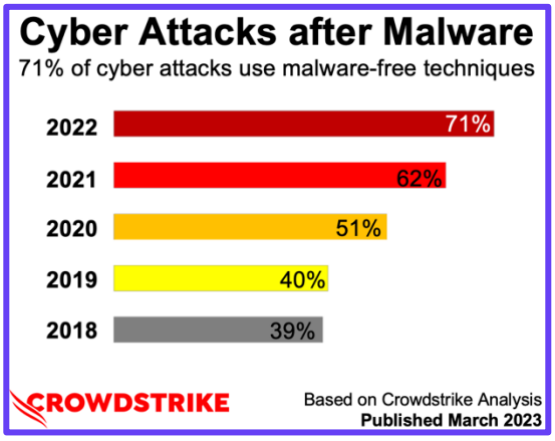

Cyber Insights: *Threats & Breaches*

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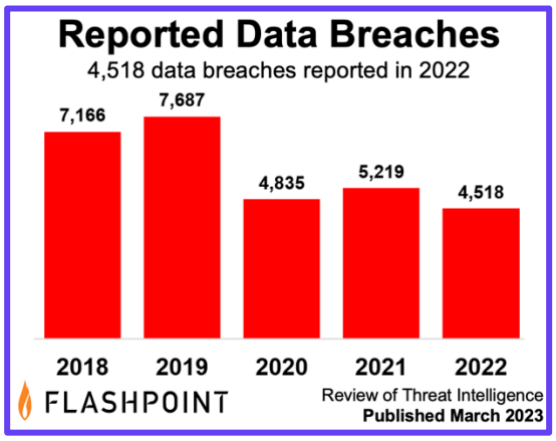

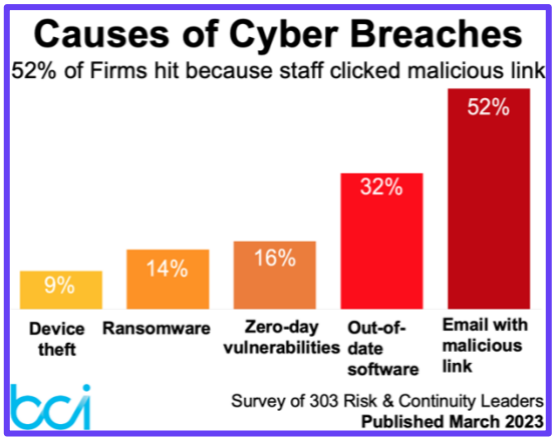

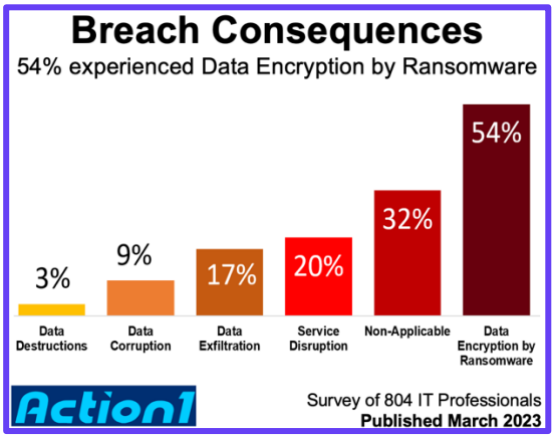

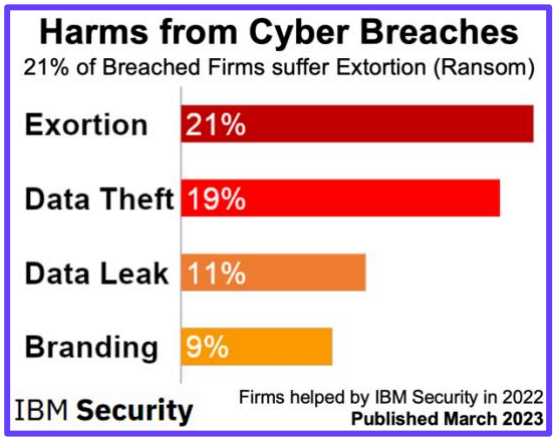

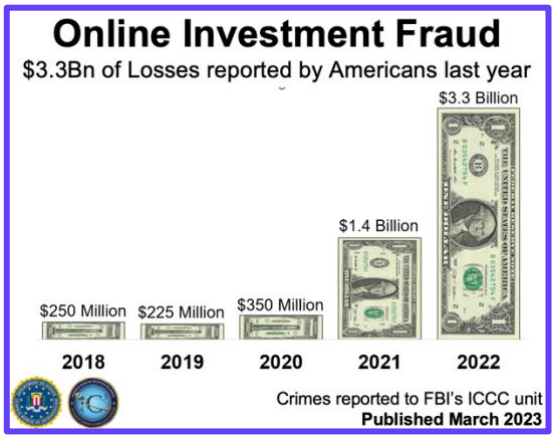

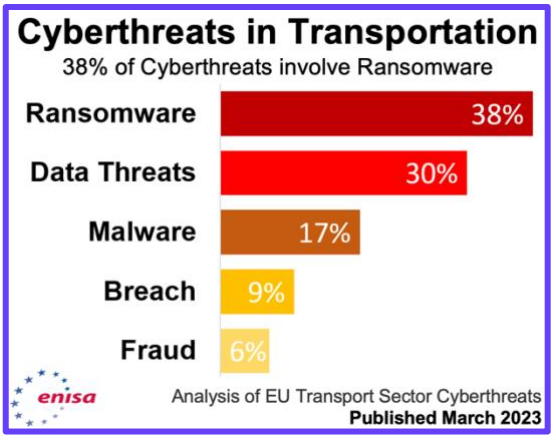

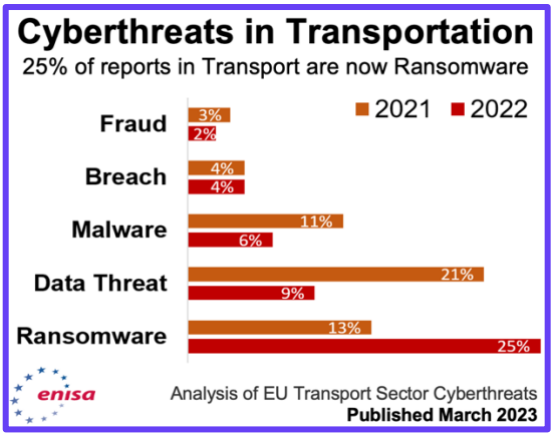

Cyber Insights: *Cybercrime & Identity*

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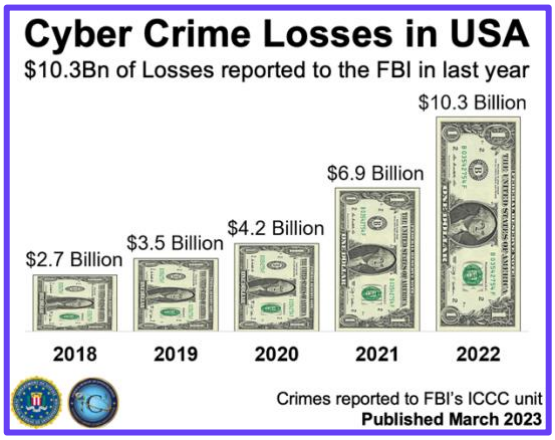

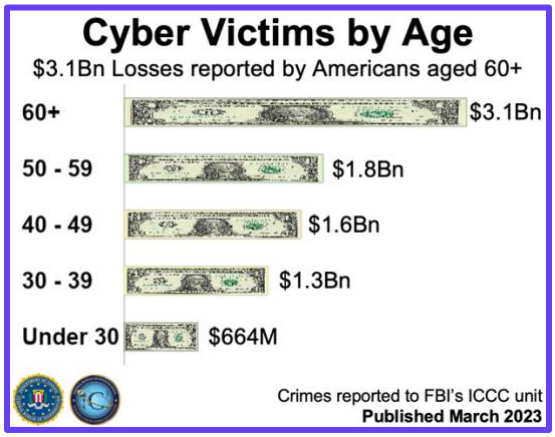

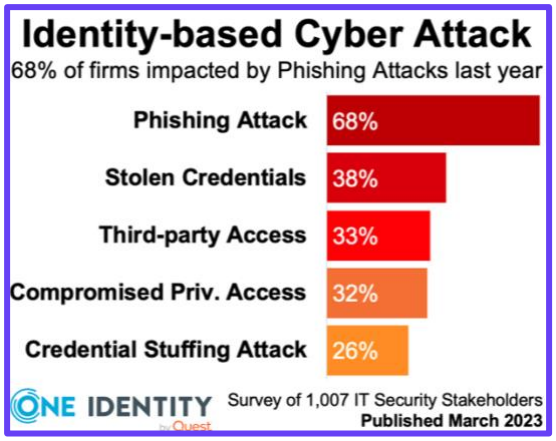

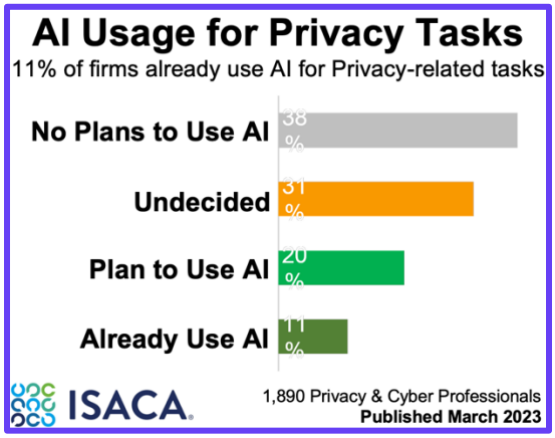

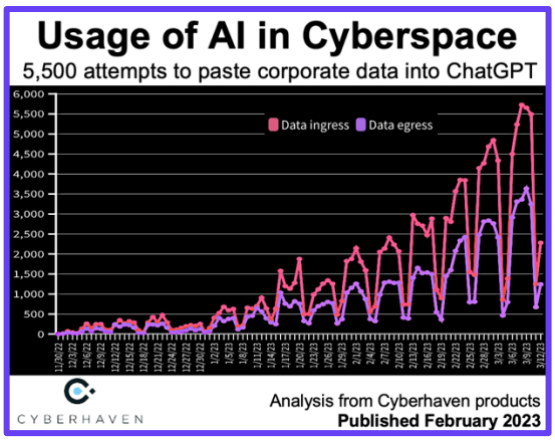

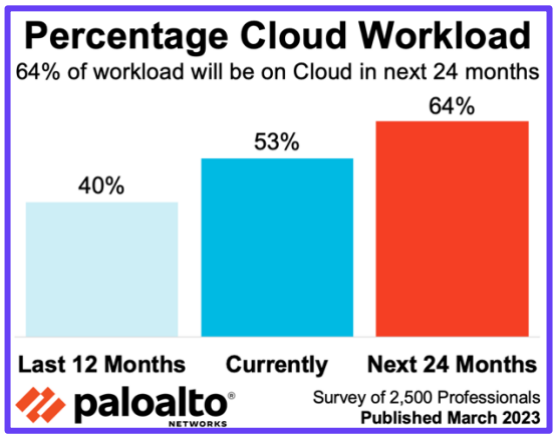

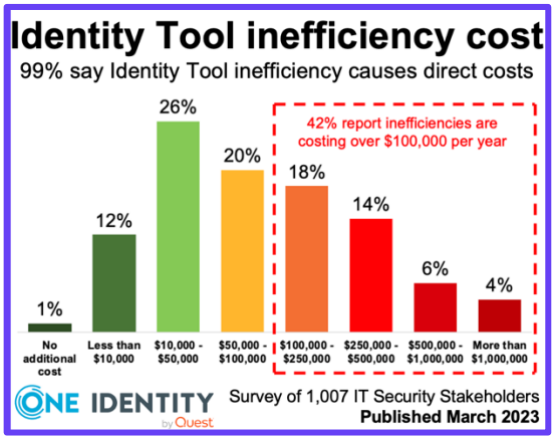

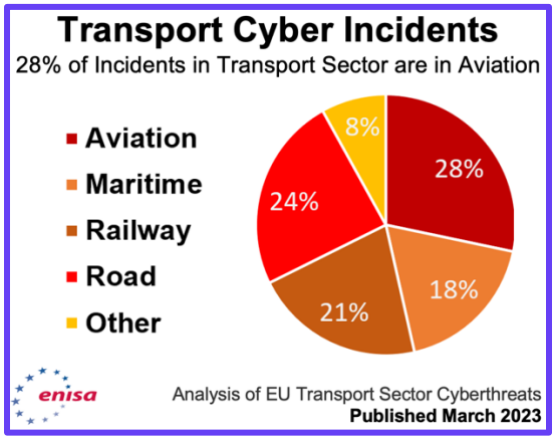

Cyber Insights: *Cyber Challenges & Exploits*

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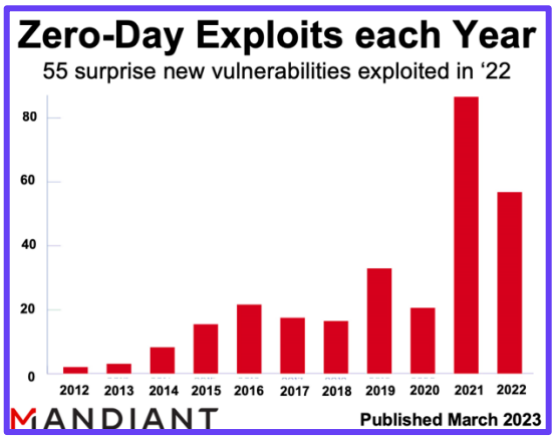

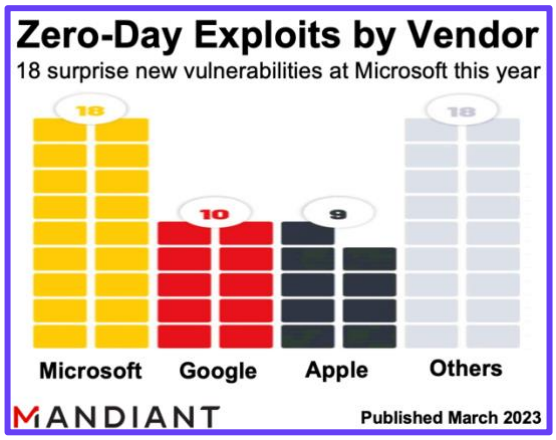

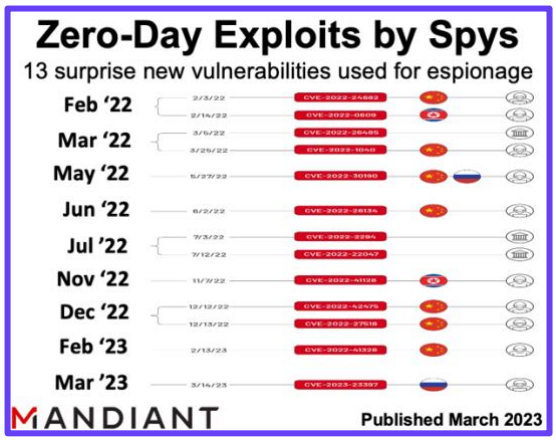

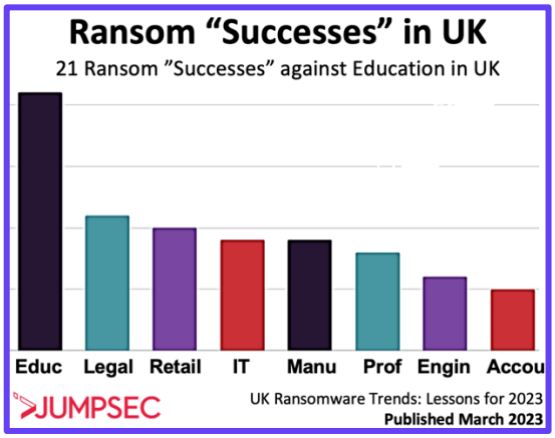

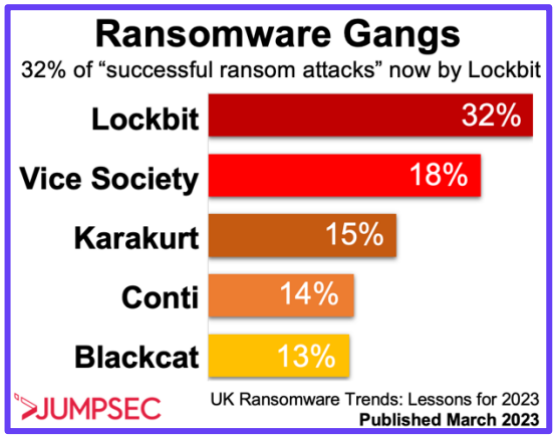

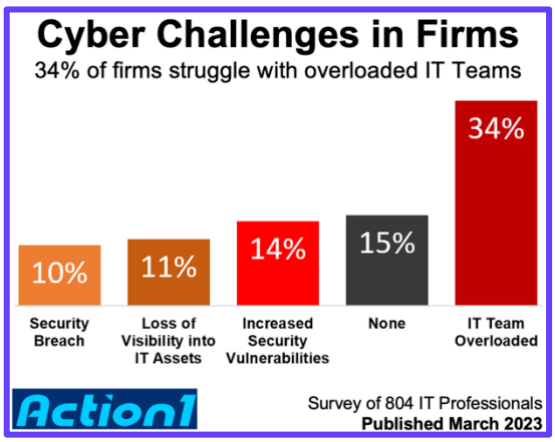

Cyber Insights: *Pen Tests*

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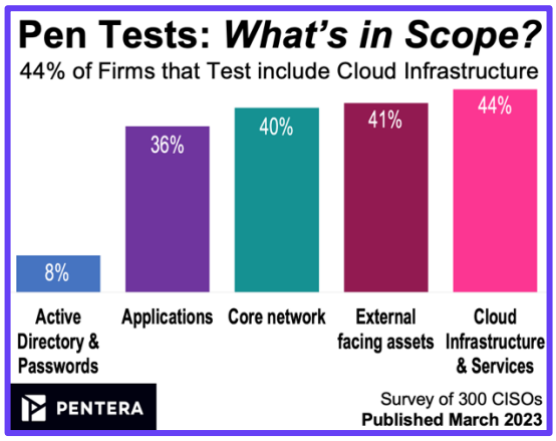

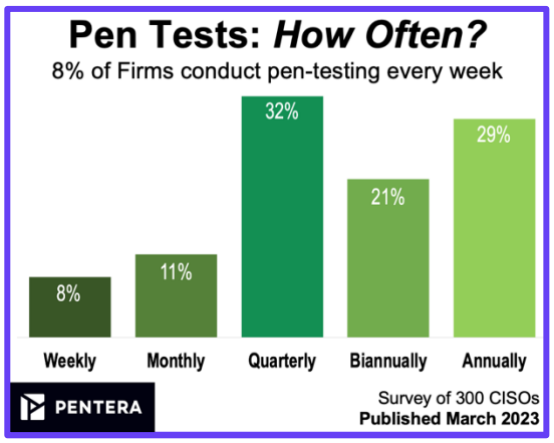

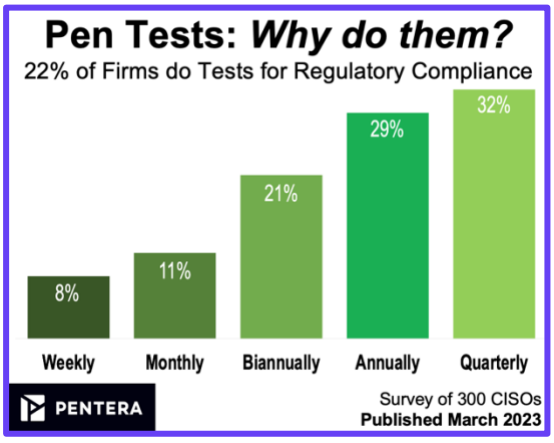

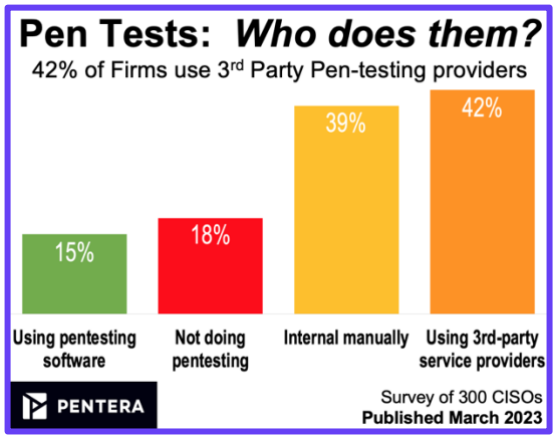

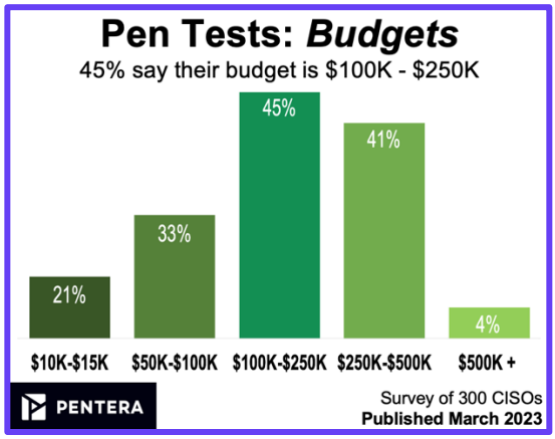

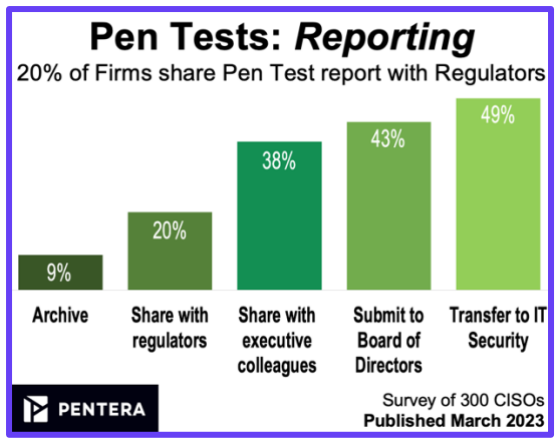

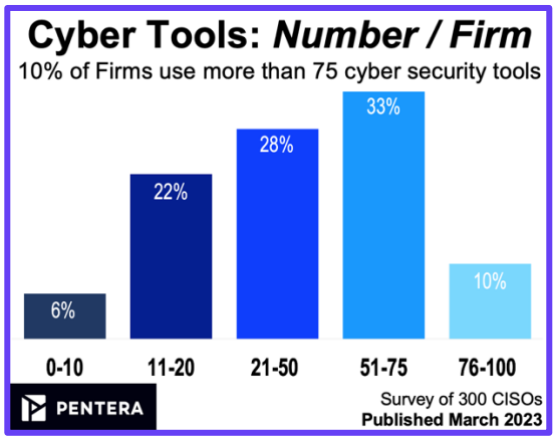

Cyber Insights: *Rankings in Cyber*

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What Drive Growth of Cloud

Top 5 Reasons for Firms to Expand in the Cloud

#1 = **Expanding** Products & Services

#2 = Increasing **Efficiency & Agility**

#3 = **Creating** new Processes & Workflows

#4 = Mitigating Business & Regulatory **Risk**

#5 = Expanding into **New Markets**

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Survey of 2,500 Professionals
Published March 2023

Ensuring Cyber Resilience

Top 5 Practices by Firms to ensure Cyber Resilience

#1 = Regularly back-up **Critical Data**

#2 = **Comply** with good cyber practices

#3 = Regularly **Patch** Software & Apps

#4 = Regular **Penetration Testing**

#5 = Align to Industry **Regulations**

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Survey of 303 Risk & Continuity Leaders
Published March 2023

Cyber Security Incidents

Top 5 Cyber Security Incidents

#1 = Early Risk in **App Development**

#2 = Images with Vulnerabilities or **Malware**

#3 = Vulnerable **Web Apps & APIs**

#4 = **Unrestricted** Network Access

#5 = Downtime due to **Misconfiguration**

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Survey of 2,500 Professionals
Published March 2023

Cyber Response Planning

Top 5 ways Firms validate Cyber Response Plans

#1 = Regularly **Conduct Exercises**

#2 = Conduct **Penetration Tests**

#3 = Run **awareness-raising** initiatives

#4 = Outcome Reports & **Action Plans**

#5 = Use External **Specialists**

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Survey of 303 Risk & Continuity Leaders
Published March 2023

Finance Impersonation

PayPal most impersonated brand in Finance

#1 = PayPal

#2 = MTB

#3 = Crédit Agricole

#4 = La Banque Postale

#5 = WellsFargo

vade

Insights from Jan – Dec 2022
Published March 2023

Key Cyber Security Metrics

Top 5 Key Cyber Security Metrics

#1 = Mean Time to **Detect**

#2 = Mean Time to **Remediate**

#3 = Number of **Breaches**

#4 = Number of **Intrusion Attempts**

#5 = Unplanned **Downtime**

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Survey of 2,500 Professionals
Published March 2023

Top Security Principles

Priorities from Australia's Cyber Security Center

#1 = **Govern**, eg manage risks

#2 = **Protect** eg create controls

#3 = **Detect**

#4 = **Respond**

ACSC Australian Cyber Security Centre

Australian Information Security Manual
Published February 2023

Top 5 *Myths* in Ransomware

Debunking Five Ransomware Misconceptions

#1 = ***Sophisticated Hackers*** to blame

#2 = ***Large firms*** are most targeted

#3 = ***Contagion*** always spreads

#4 = ***Paying*** *guarantees* data restored

#5 = ***Antivirus*** stops all Ransomware

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Published March 2023

Cyber Insights: *Cyber Strategies*

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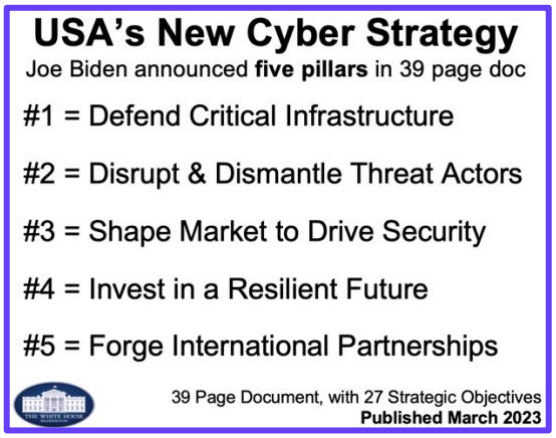

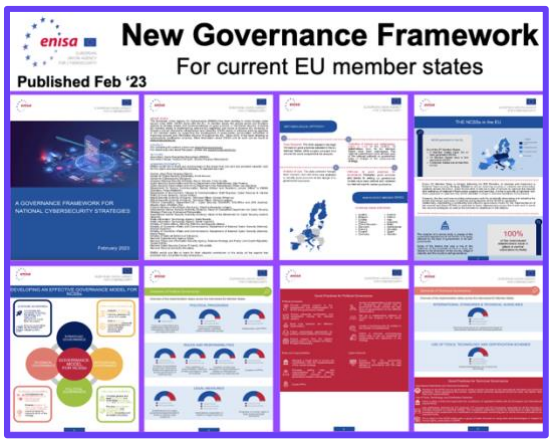

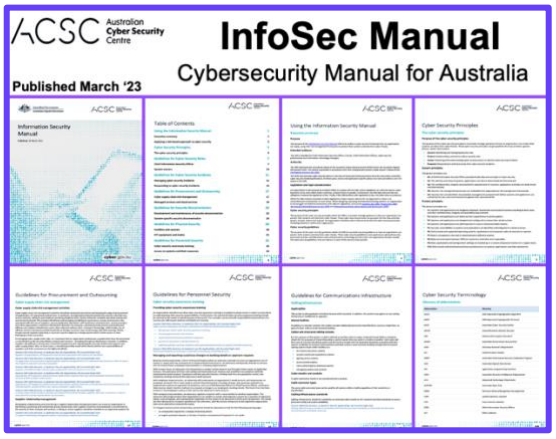

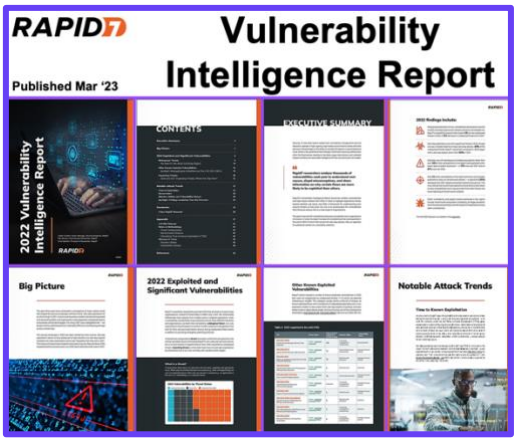

Cyber Insights: *Reporting on Cyber*

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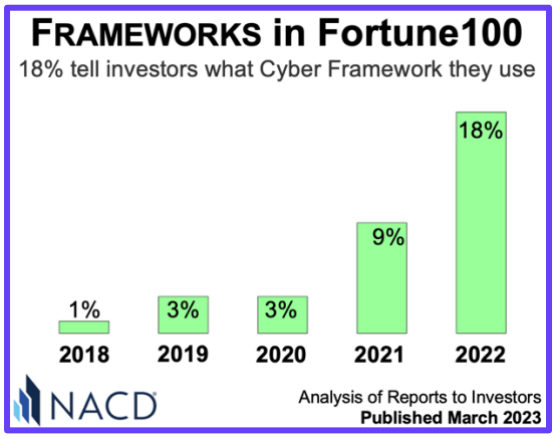

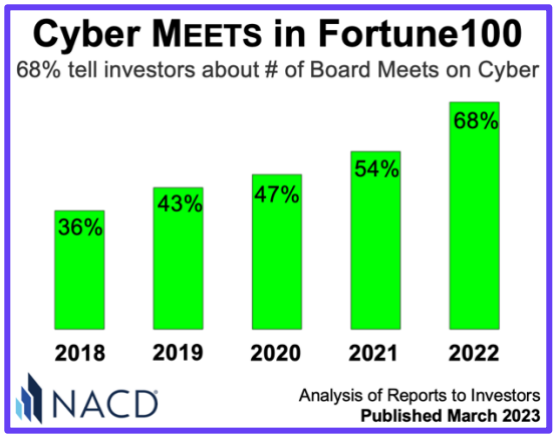

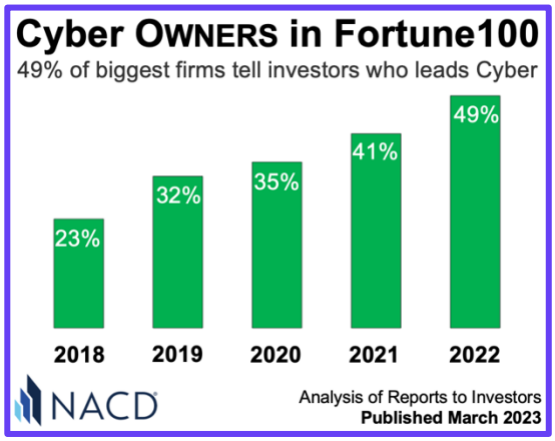

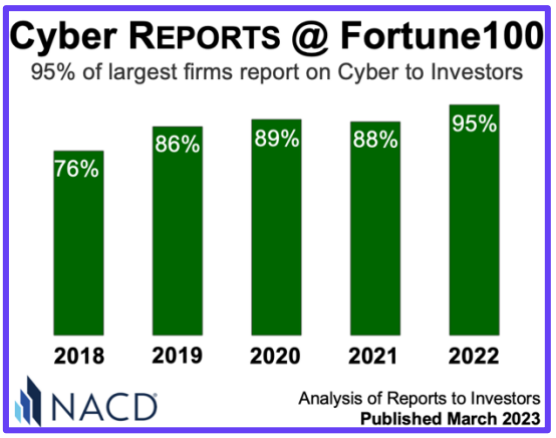

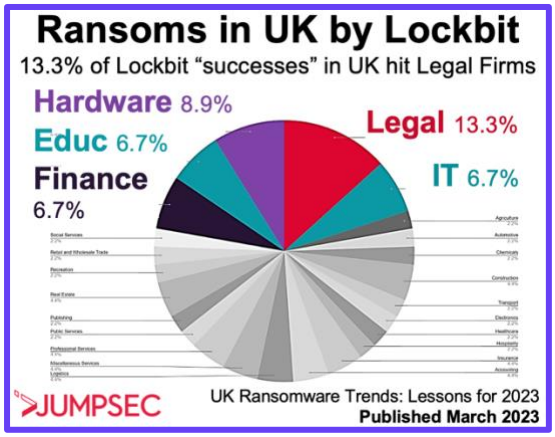

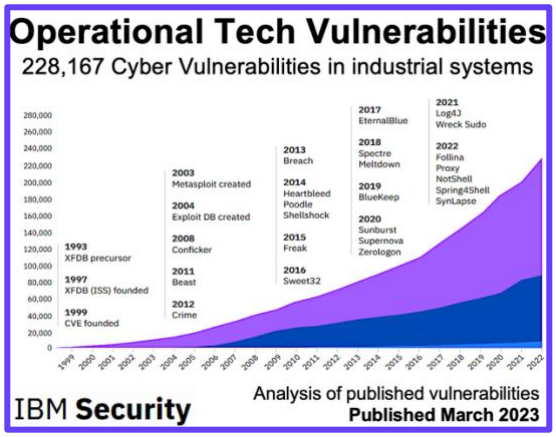

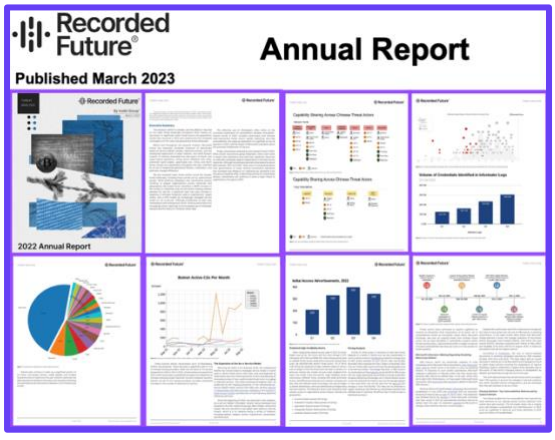

Cyber Insights: *Cyber Skills Gap*

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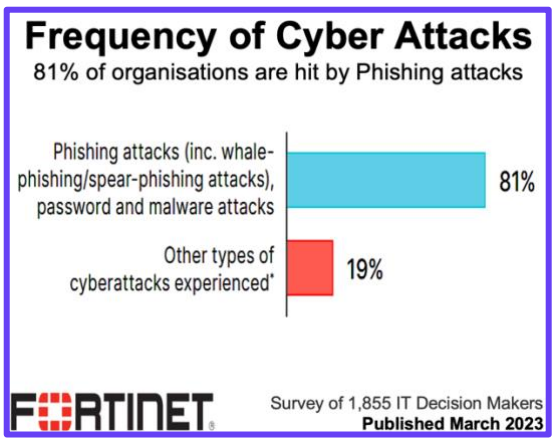

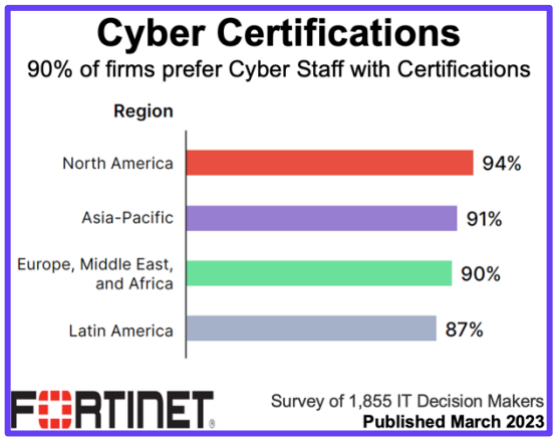

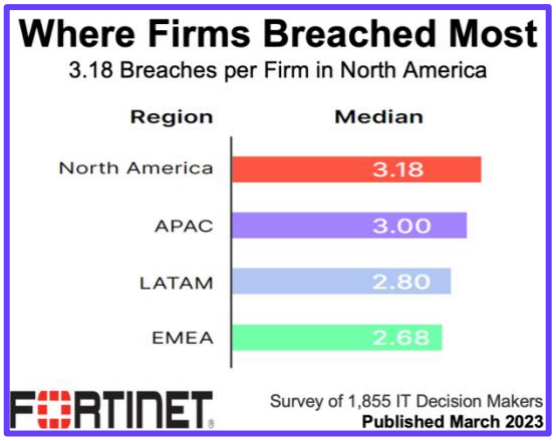

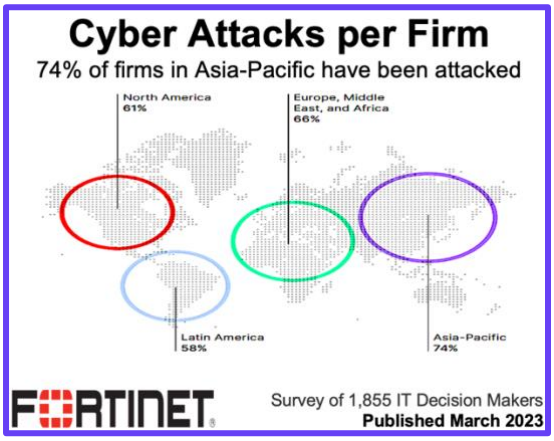

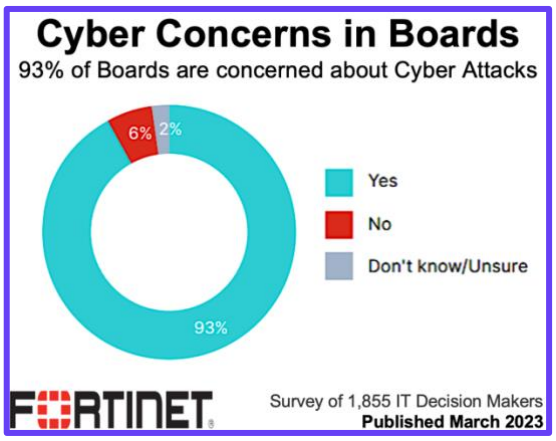

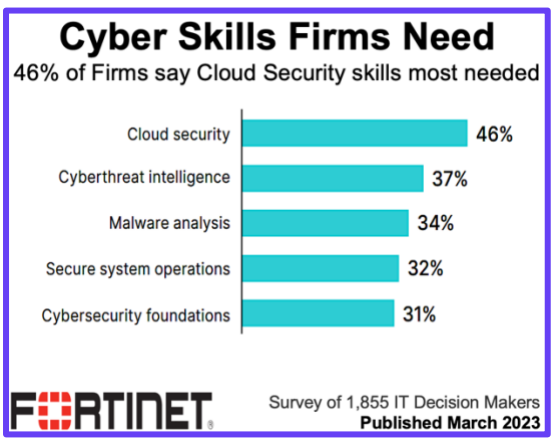

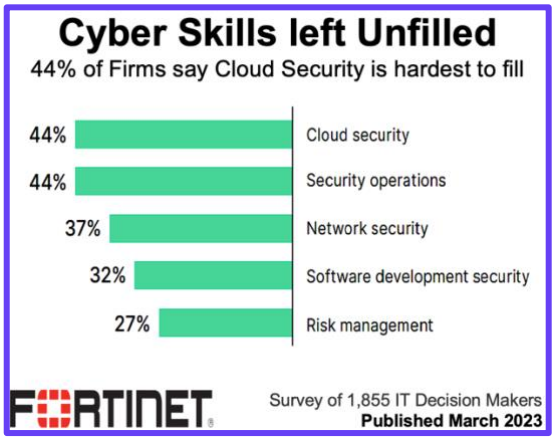

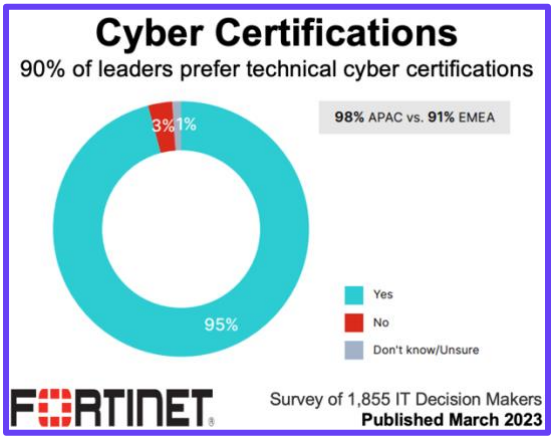

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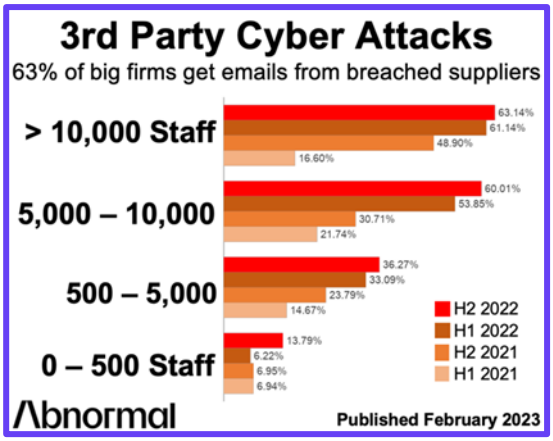

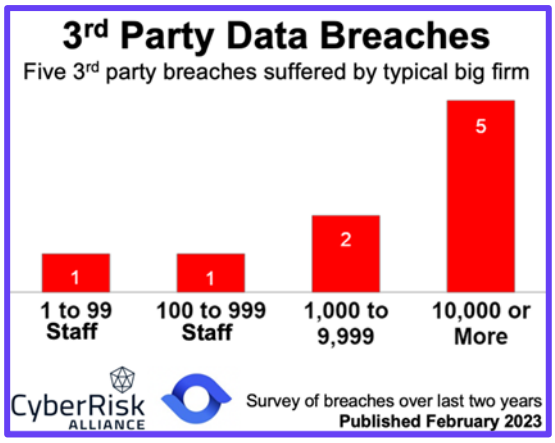

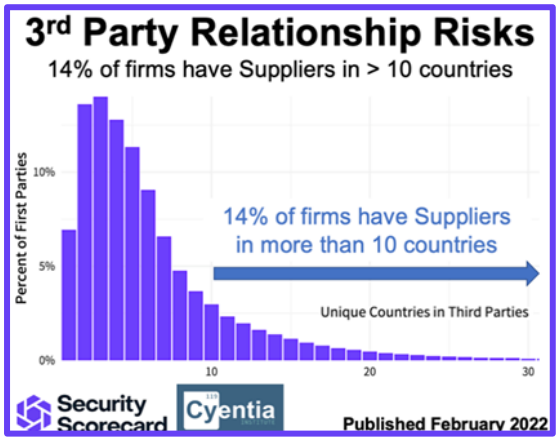

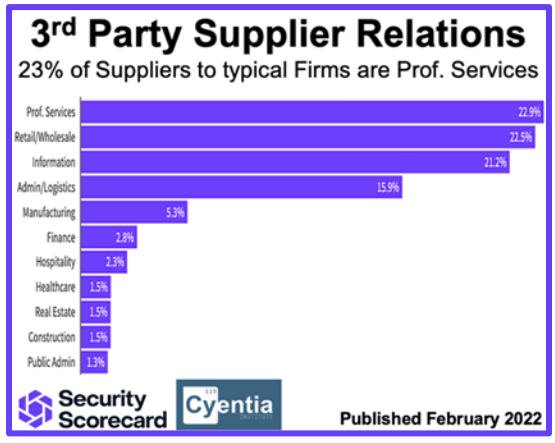

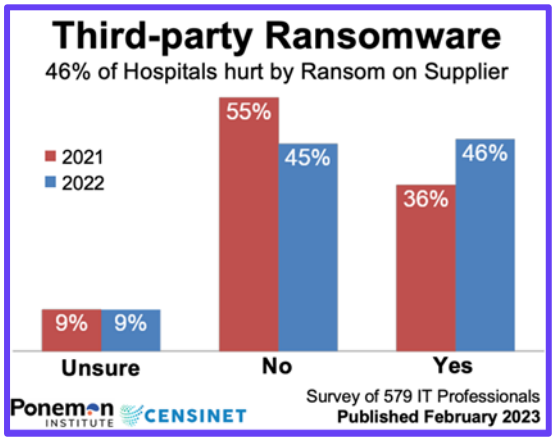

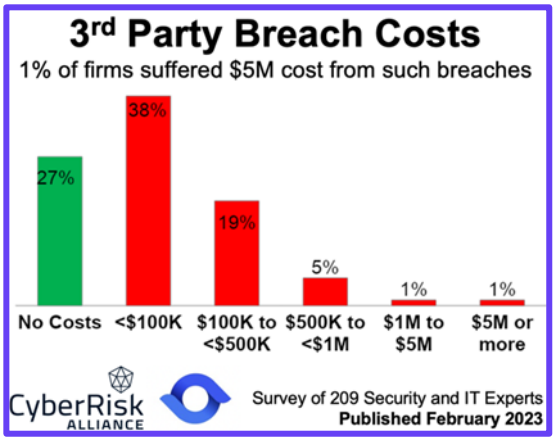

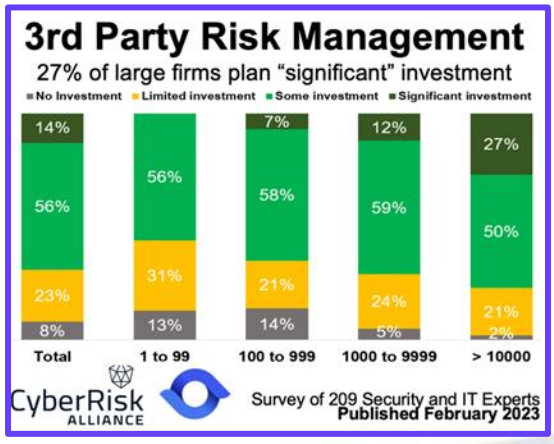

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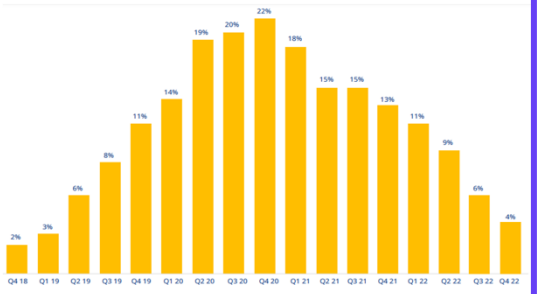
Cyber Insurance Inflation

Cyber Insurance Prices up by 4% in the last Quarter



Marsh

Based on Marsh Specialty & Global Placement

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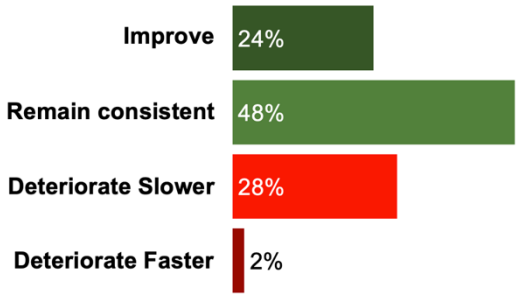
Cyber Insurance Market

24% expect Cyber Insurance Market to improve 2023



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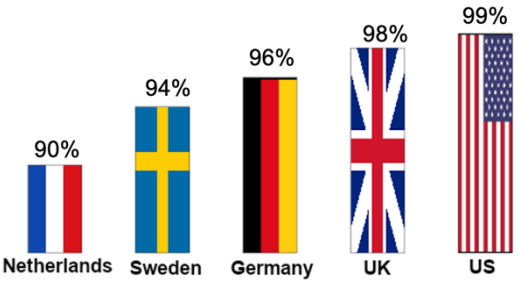
Cyber Insurance

98% of insurers pay Cyber Ransoms in the UK



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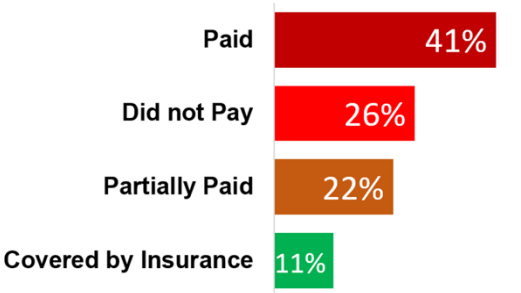
Ransoms Paid by Insurers?

11% of Ransoms are paid by Cyber Insurance



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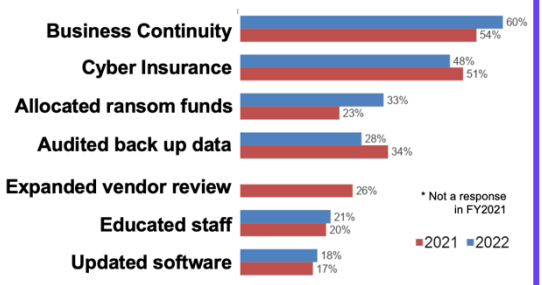
Ransom Prep in Hospitals

48% of Hospitals prepare with **Cyber Insurance**



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Survey of 579 IT Professionals

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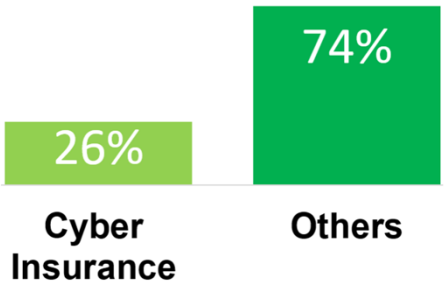
Risk Management Drivers

26% of firms use Cyber Insurance as a strategy



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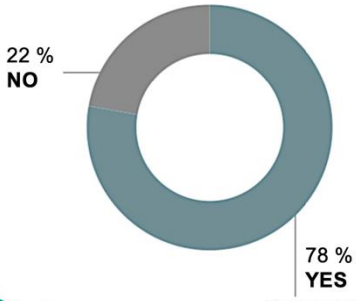
Cyber Insurance Risk

78% of Insurers consider quality of Risk Management



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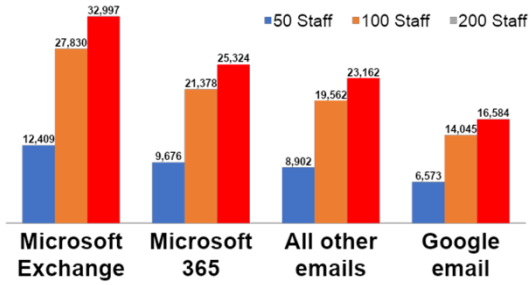
Cost to Insure Email Services

Cyber Insurance is 50% cheaper for Google clients



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Analysis of 40,000 Cyber Insurance policies

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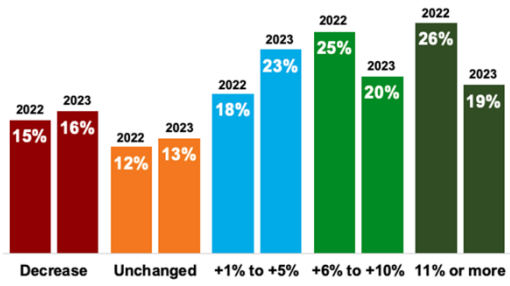
Cyber Security Budgets

39% of Firms increasing by >10%, vs 51% last year



Data from 2023 Global Digital Trust Insights
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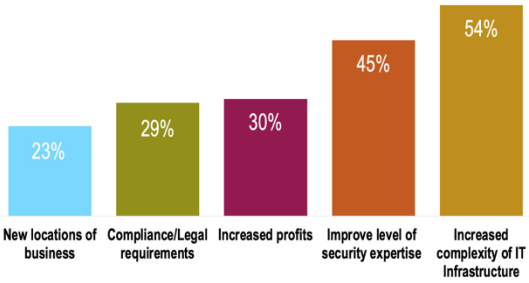
IT Security Budgets

Increased complexity of IT Infrastructure at 54%



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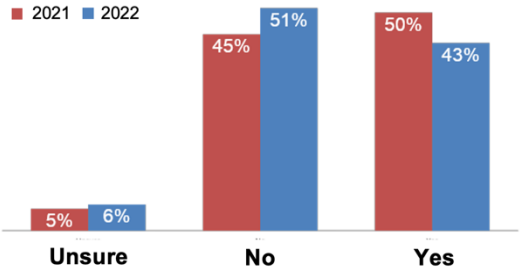
Risk Budget Less Prioritised

Risk Management Budget prioritized by Hospitals



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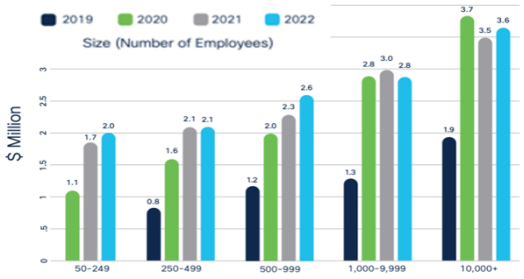
Privacy Spending by Firms

$3.6m typical spend on Privacy by largest firms



Survey of 4,700 Security Professionals
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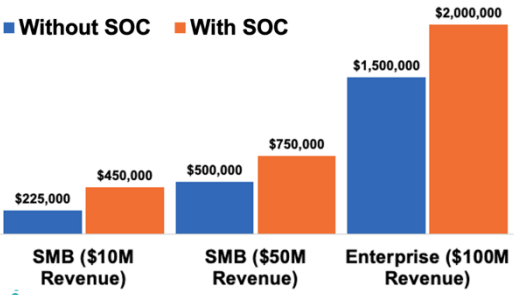
Cyber Budgets & SOCs

$2M budget for Enterprises with Security Ops Centre



Data from Boardish Clients
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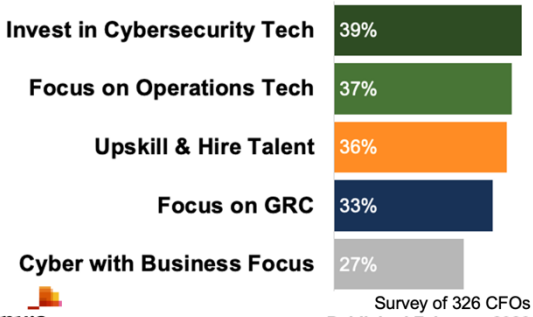
CFOs plan to invest in Cyber

39% of CFOs plan to invest in Cyber Tech Solutions



Survey of 326 CFOs
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Cyber Budgeting Problems

Legacy Budgets make it hard to budget well for future

#1 = **Legacy Budget Structures**

#2 = **Lack of Verification**

if expense tracking done internally

#3 = **Lack of Visibility on Resources**

Data from Boardish Clients
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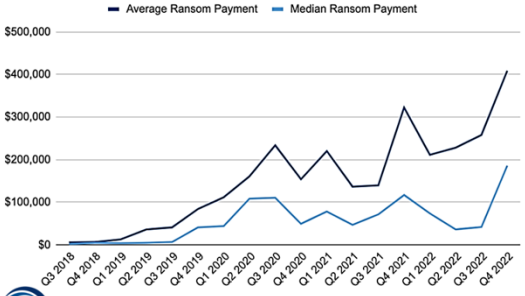
Typical Ransom Payments

Median Ransom actually paid is about $180,000



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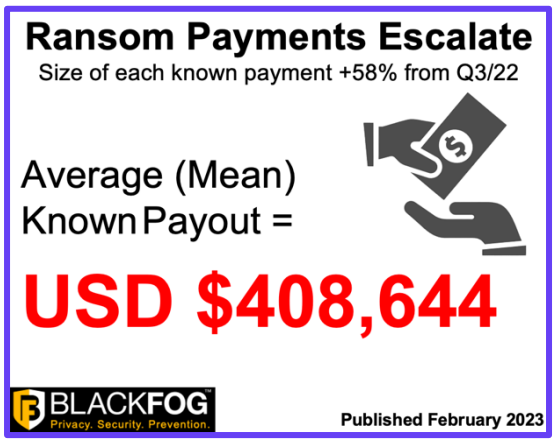

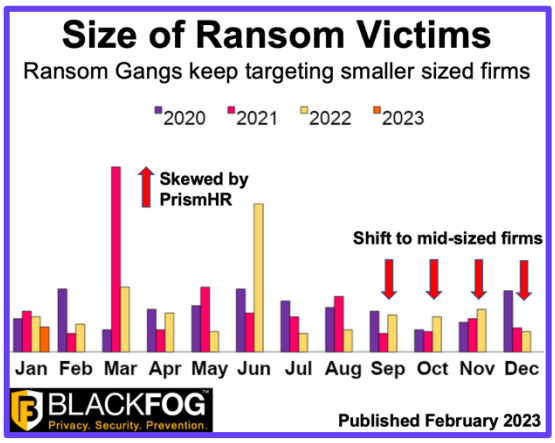

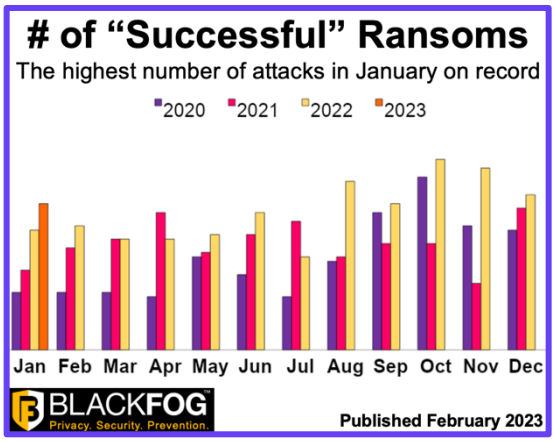

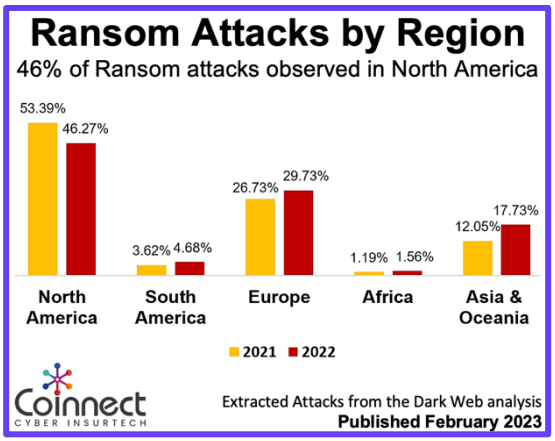

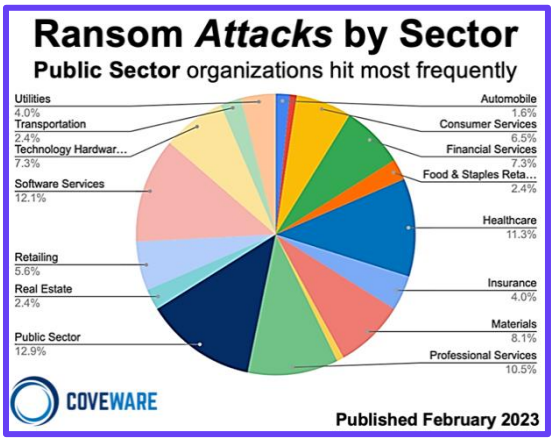

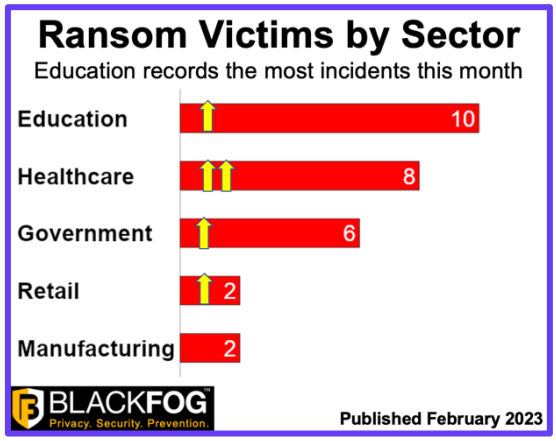

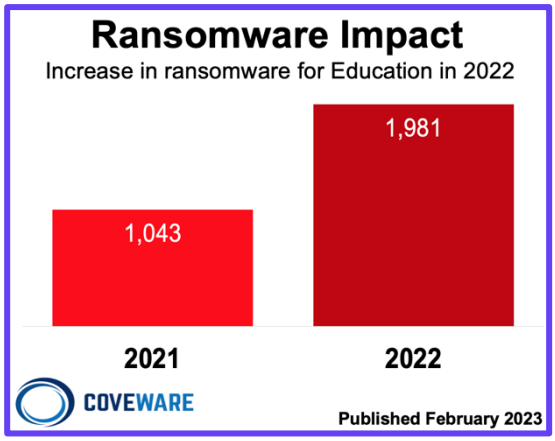

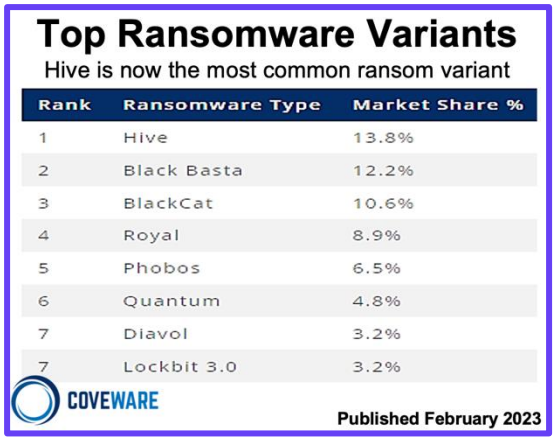

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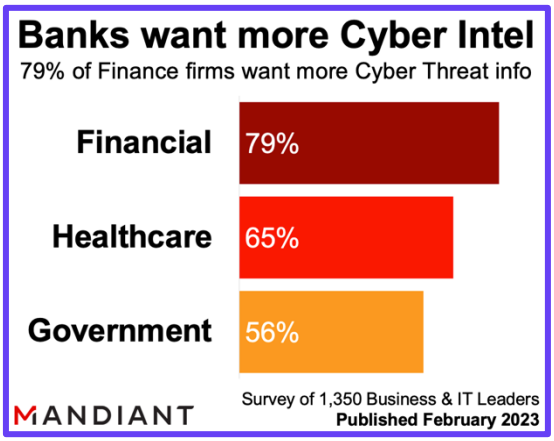

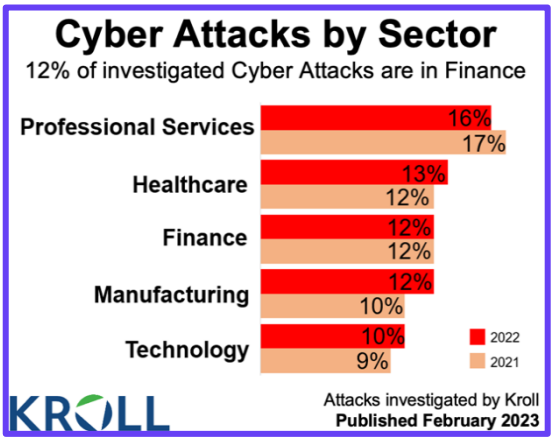

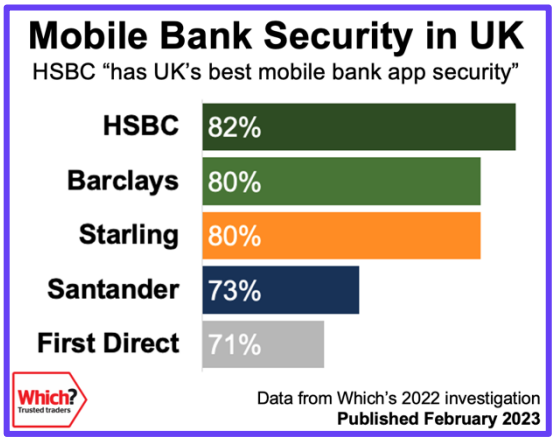

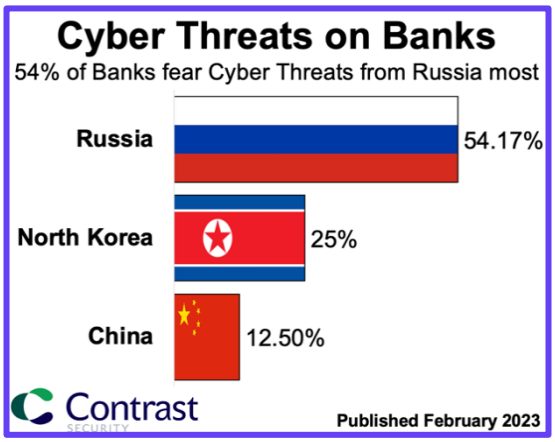

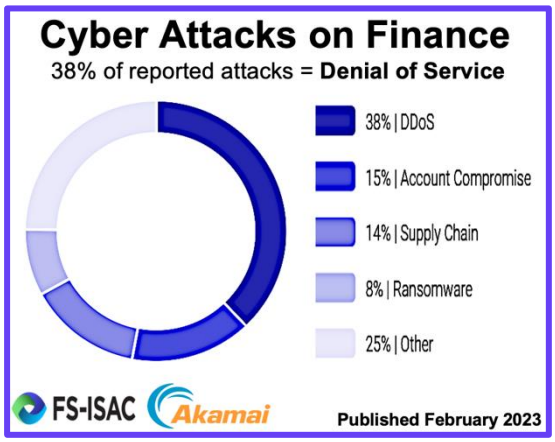

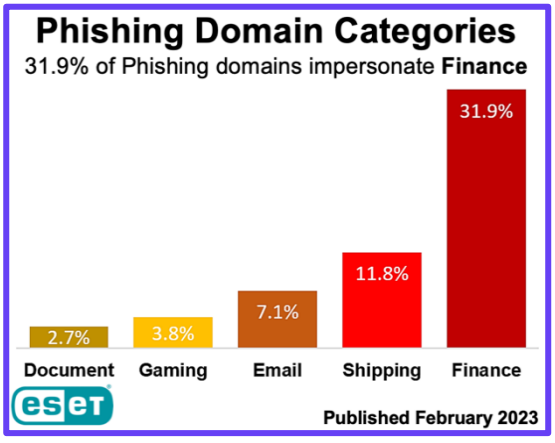

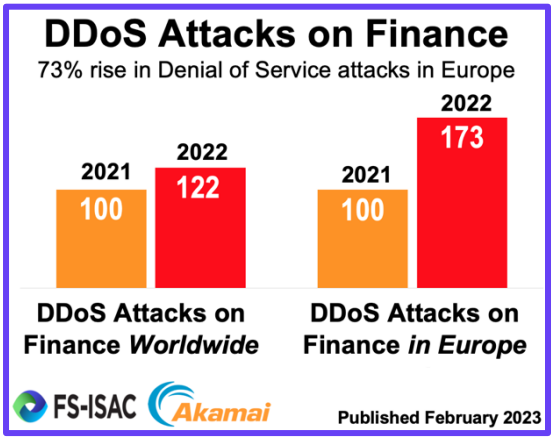

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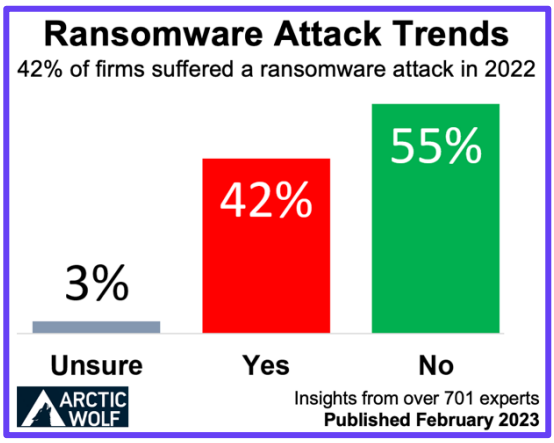

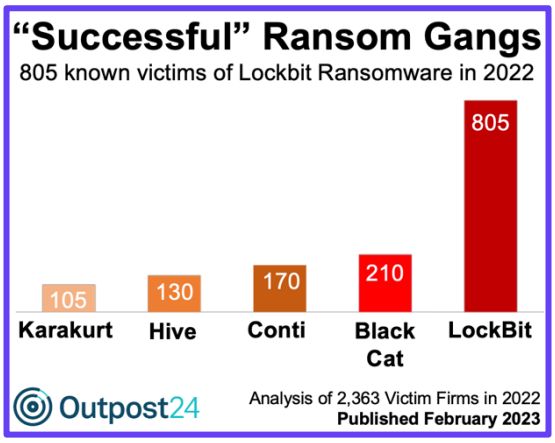

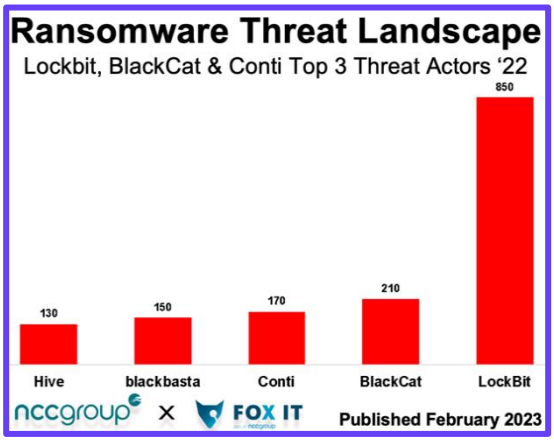

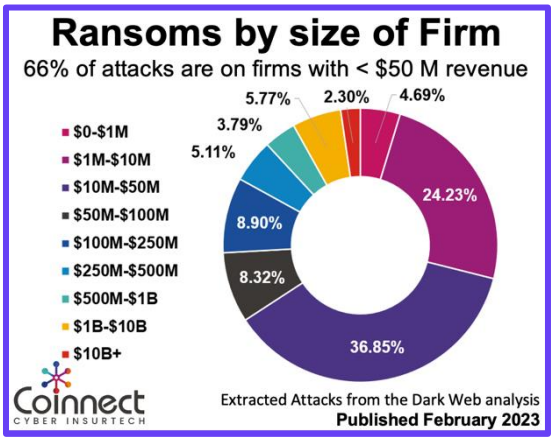

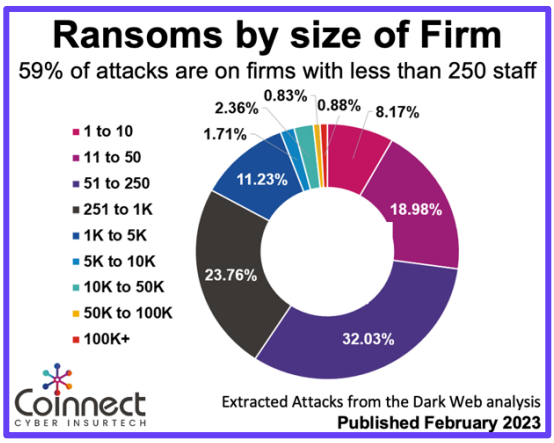

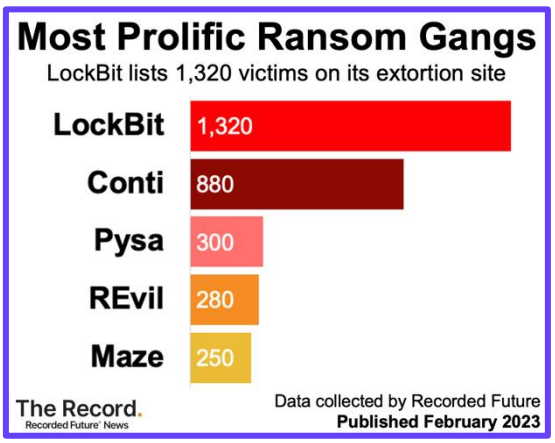

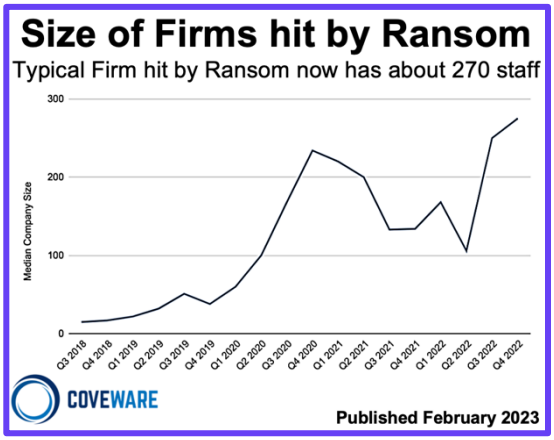

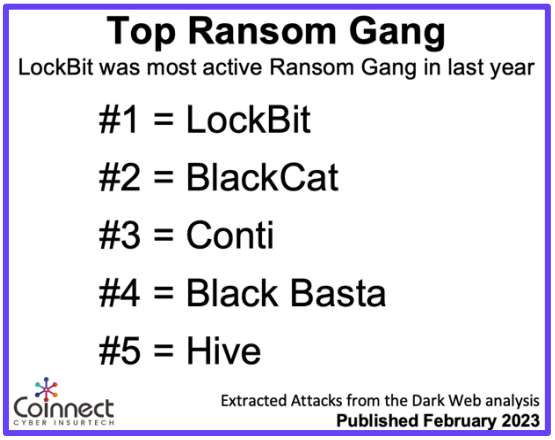

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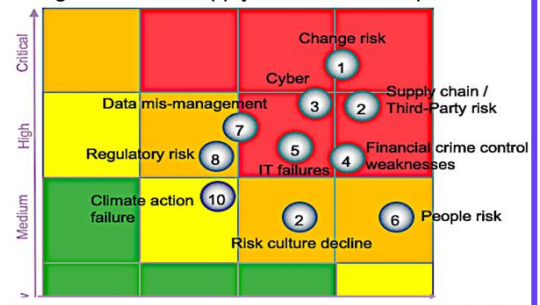
Top 2023 Operational Risks

Change Risk and Supply Chain are on top of the list

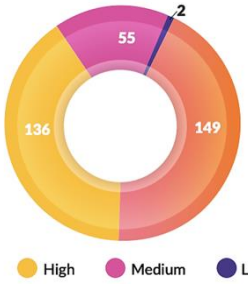


OPRISK company ORMC

Survey of 50 Organizations
Published February 2023

New Vulnerabilities Severity

149 new Critical Vulnerabilities linked to Ransoms

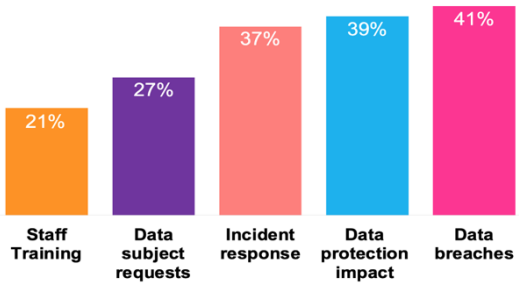


CSW ivanti

Review of Ransomware Threats
Published February 2023

Privacy Metrics Reported

41% of Firms report Data Breaches to their Board

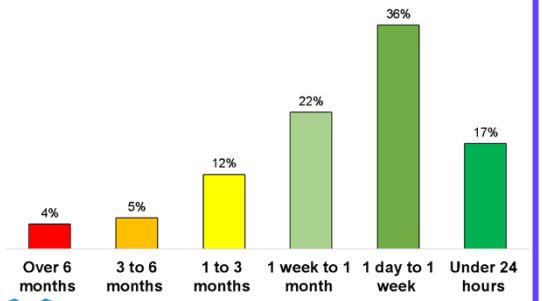


CISCO

Survey of 4,700 Security Professionals
Published February 2023

Digital Forensics

17% take > 24 hours to determine the Root Cause

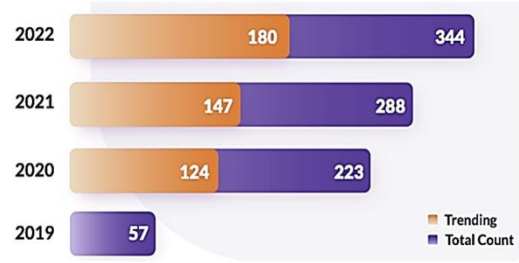


MAGNET FORENSICS

Survey of 492 respondents
Published February 2023

Ransomware Vulnerabilities

344 Software Vulnerabilities linked to Ransomware



CSW ivanti

Review of Ransomware Threats
Published February 2023

Ransomware Vulnerabilities

24 new Microsoft issues linked to Ransomware

Vendor Name	Count of Vulnerability Associated with Ransomware
Microsoft	24
SonicWall	5
VMWare	3
Red Hat	3
QNAP	3

CSW ivanti

Review of Ransomware Threats
Published February 2023

Cyber Troubling Healthcare

Top 5 Cyber Challenges Faced by Healthcare

#1 = **Vulnerability** of Legacy Systems

#2 = **Data Breaches**

#3 = **Insecure** Devices & Equipment

#4 = **Ransomware** & **Malware**

#5 = **Distributed Denial of Service**

CHECK POINT

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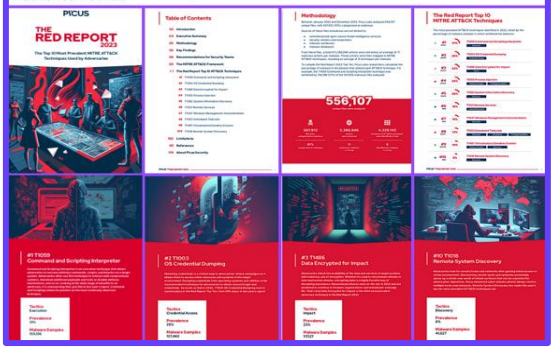
Red Report 2023

PICUS

Top 10 MITRE ATT&CK Techniques

Published Feb '23



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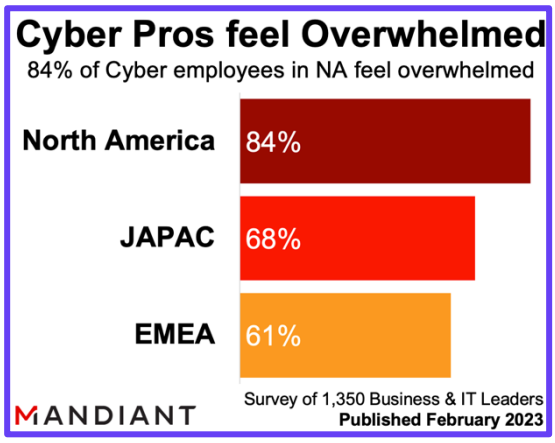

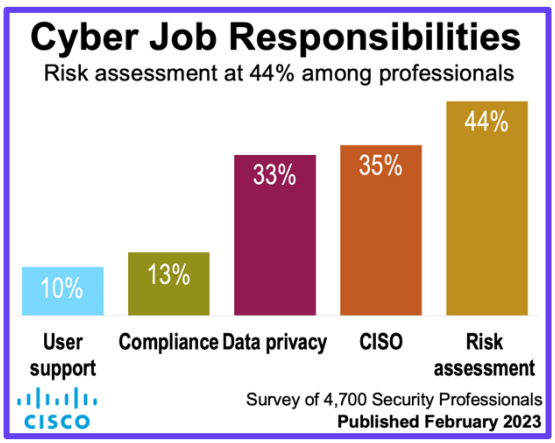

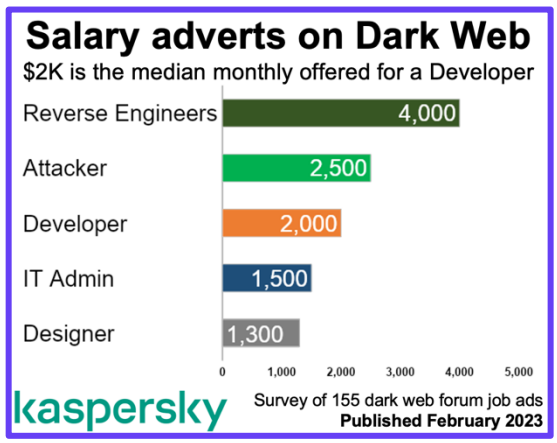

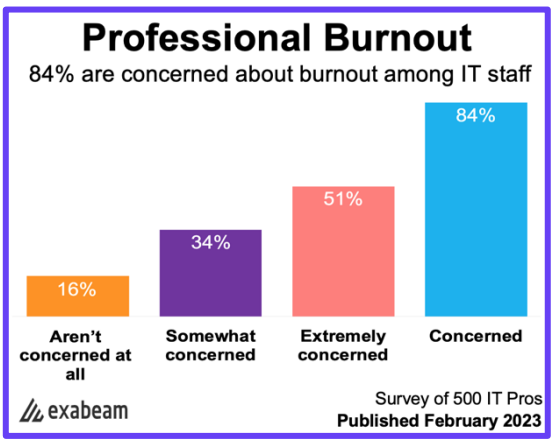

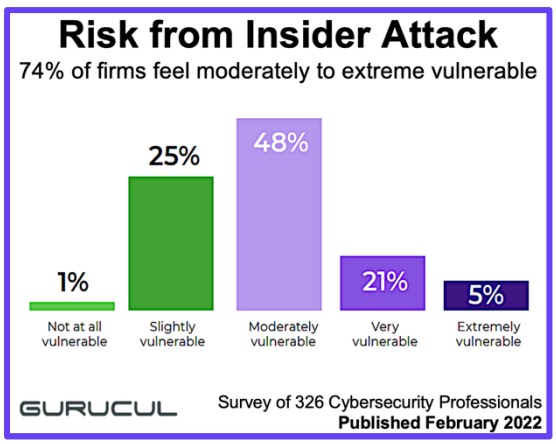

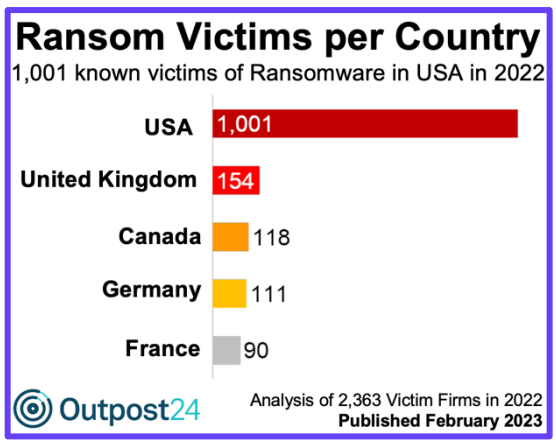

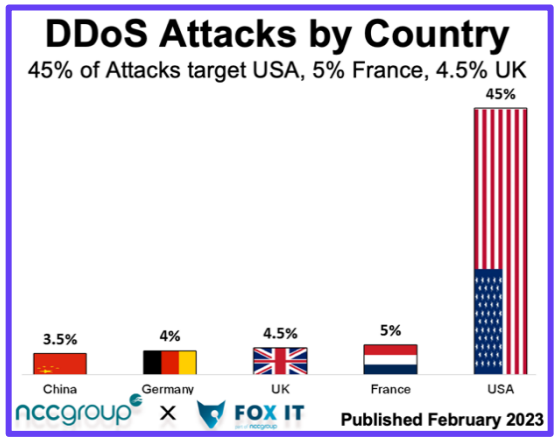

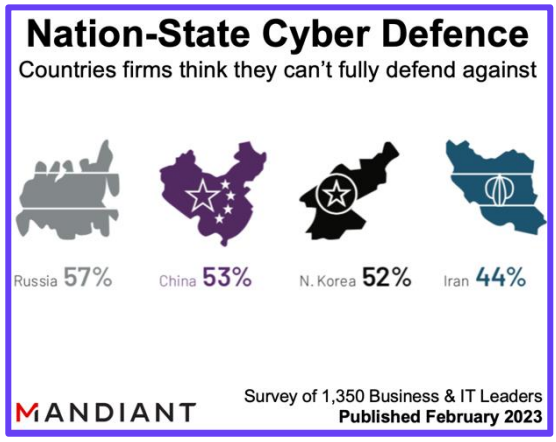

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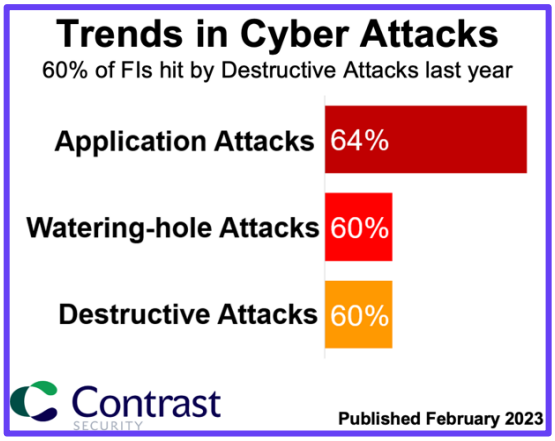

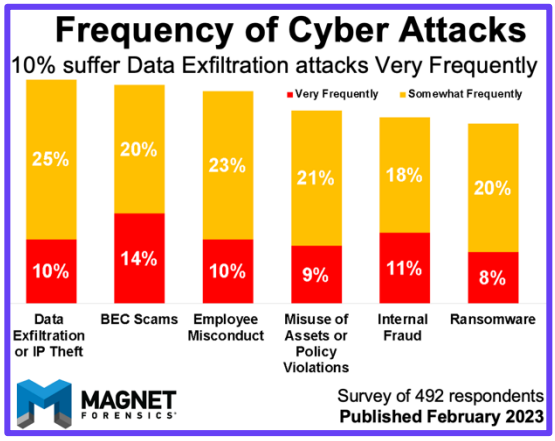

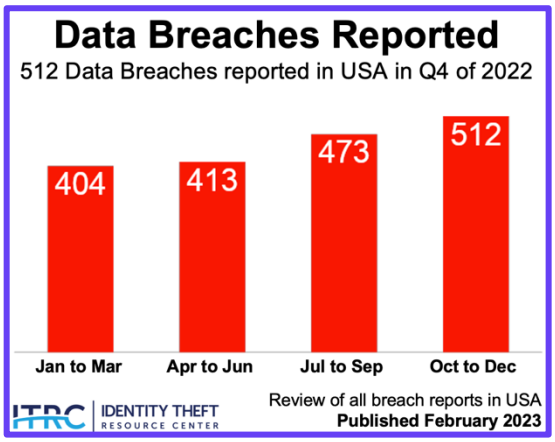

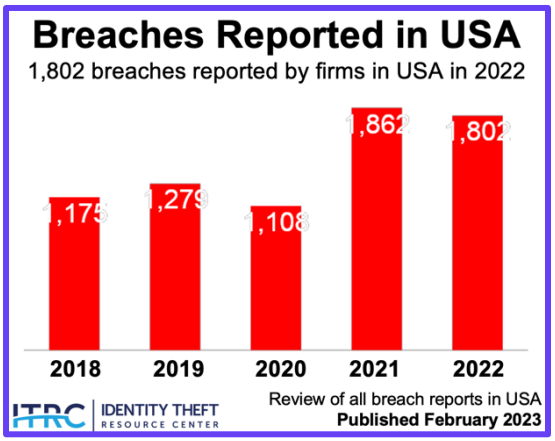

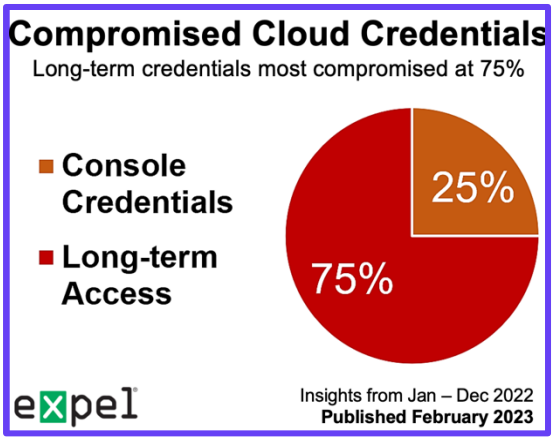

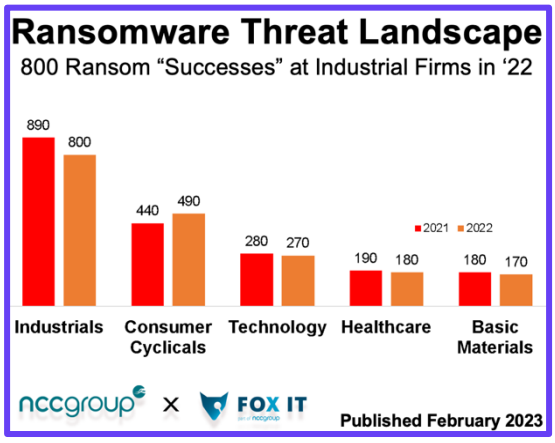

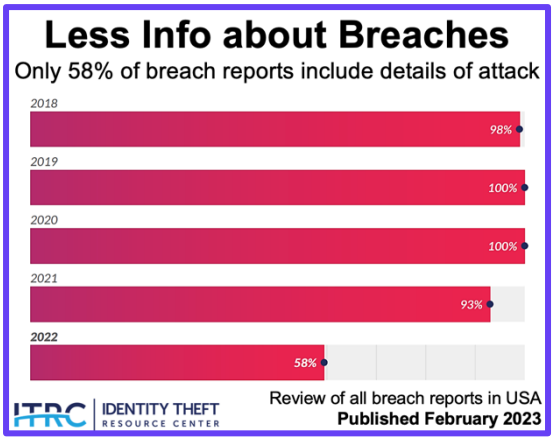

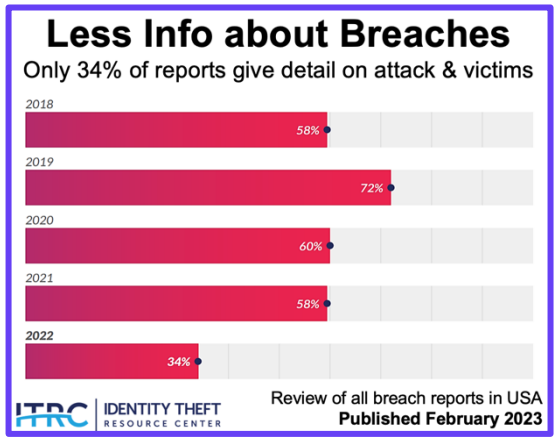

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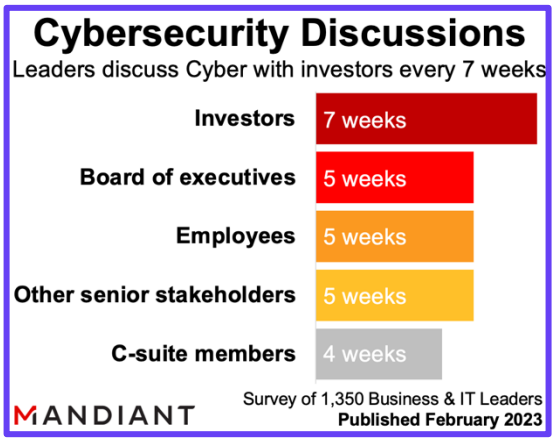

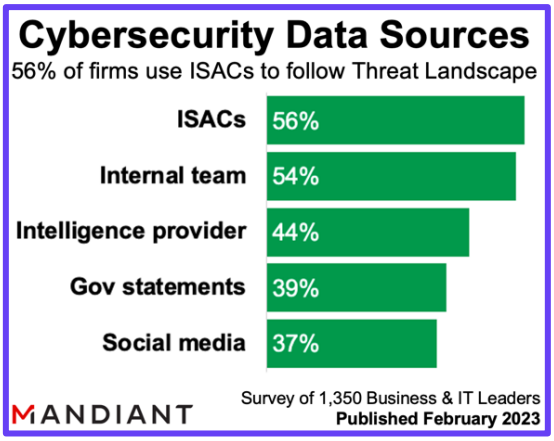

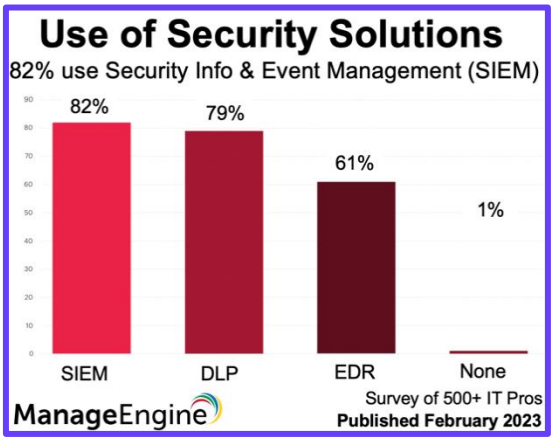

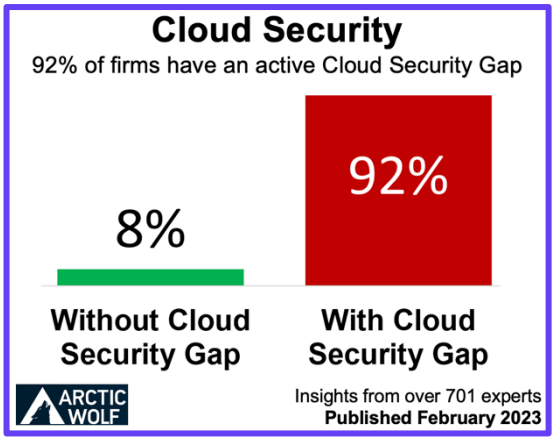

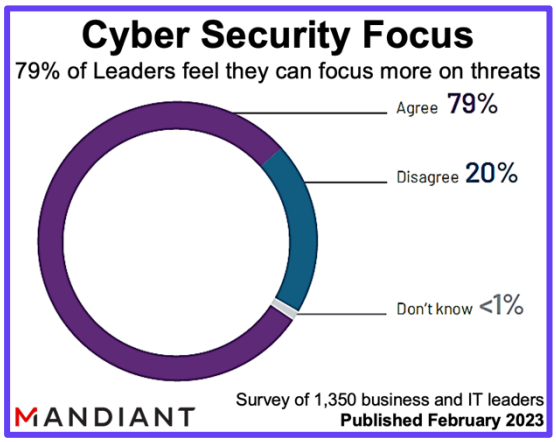

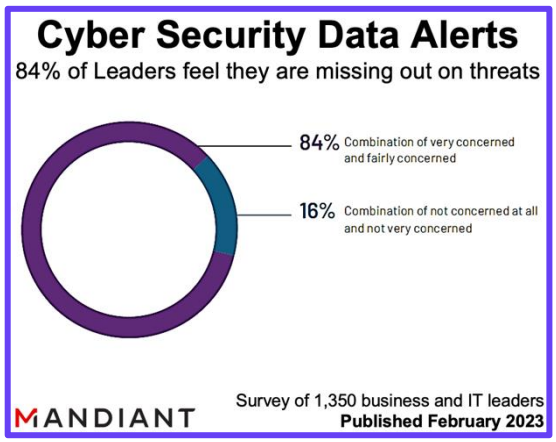

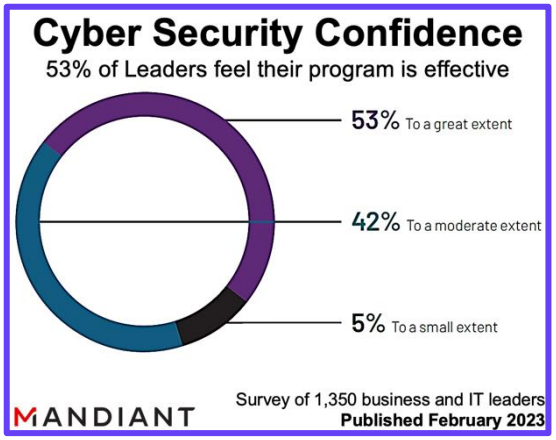

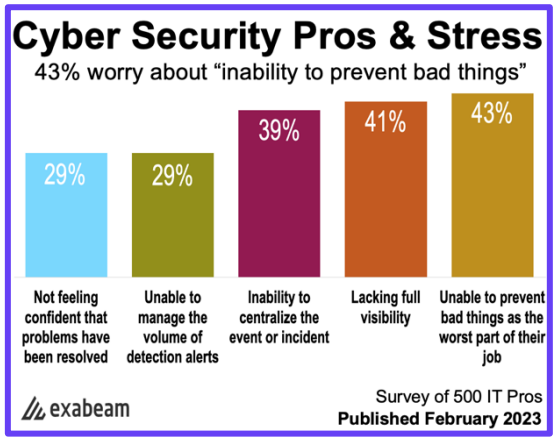

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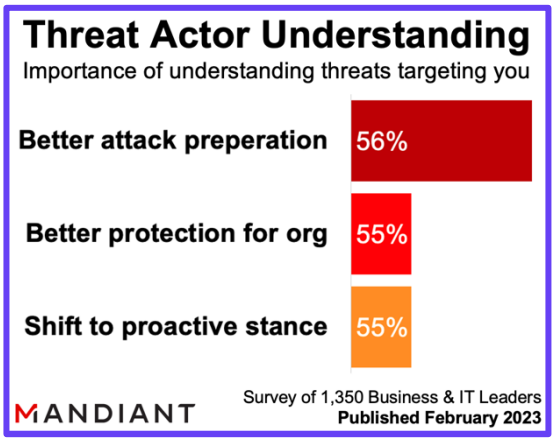

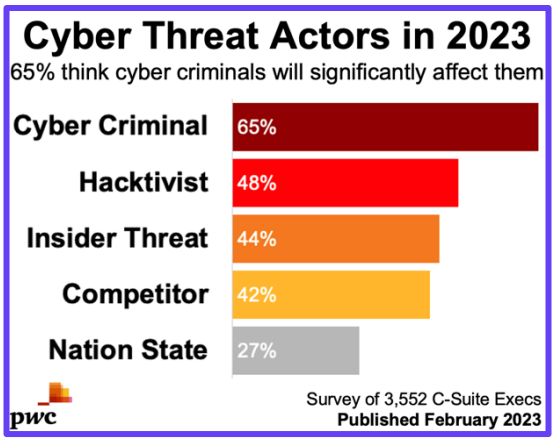

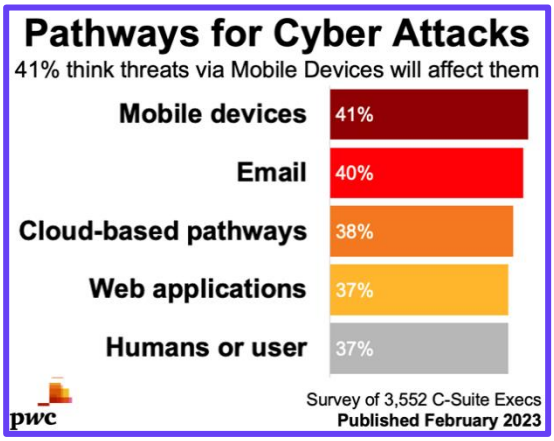

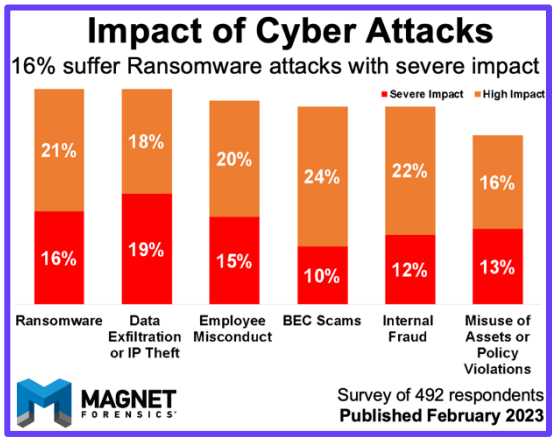

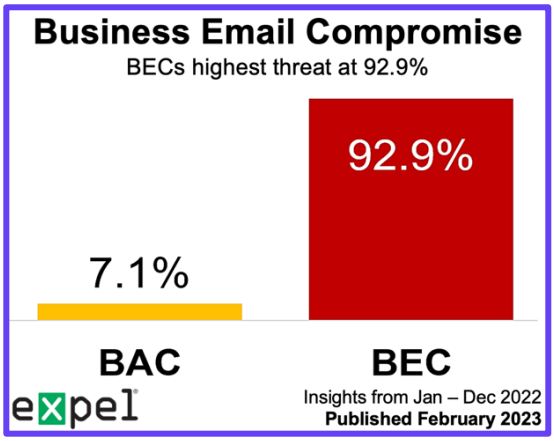

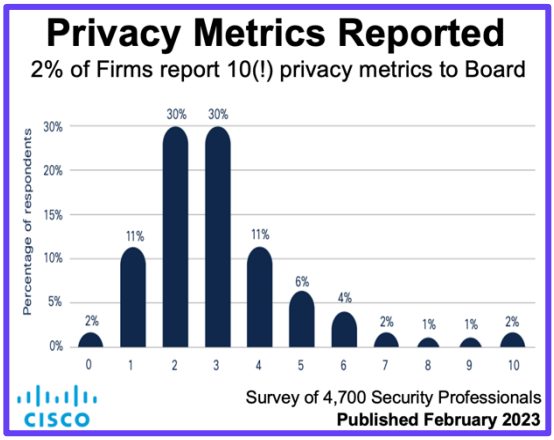

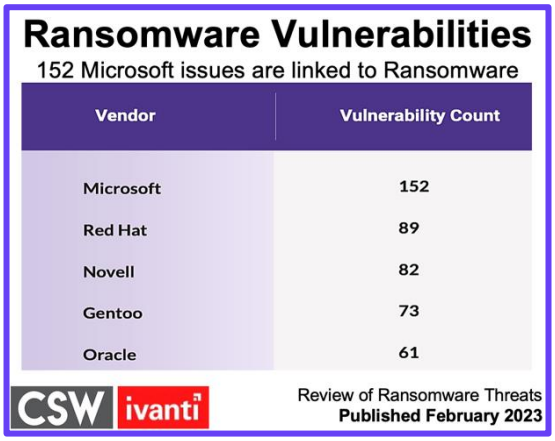

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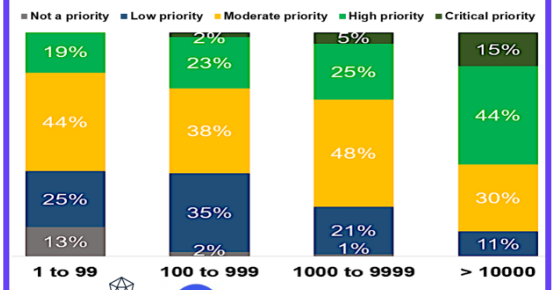
TPRM: Prioritisation

15% of Firms with 10K staff say it's a Critical Priority

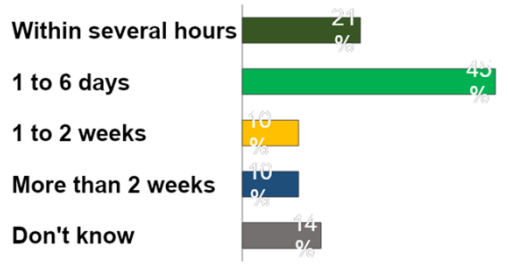


CyberRisk ALLIANCE

Survey of 209 Security and IT Experts
Published February 2023

3rd Party Attack Assessment

21% of firms can assess attacks in several hours

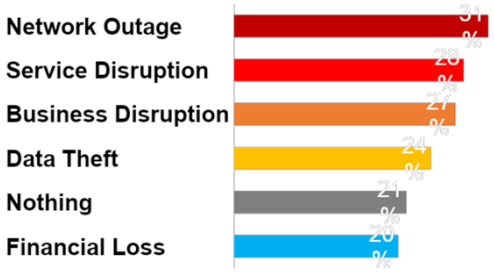


CyberRisk ALLIANCE

Survey of 209 Security and IT Experts
Published February 2023

3rd Party Breach Effects

31% of Firms hit by Outage caused by a 3rd Party

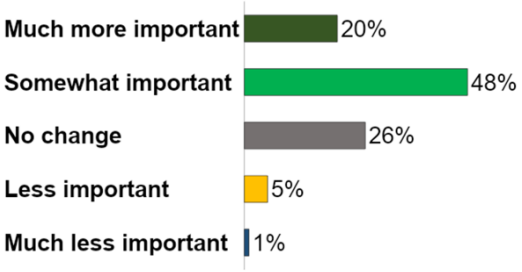


CyberRisk ALLIANCE

Survey of breaches over last two years
Published February 2023

3rd Party Risk Management

20% say it has become much more important



CyberRisk ALLIANCE

Survey of 209 Security and IT Experts
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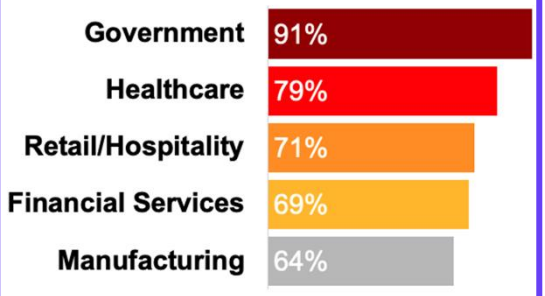
Sectors Cyber Overwhelms

91% of Cyber Gov employees feel overwhelmed

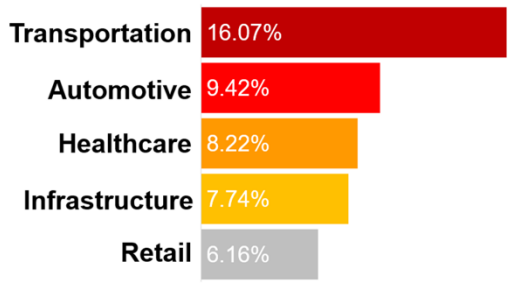


MANDIANT

Survey of 1,350 Business & IT Leaders
Published February 2023

Email Compromise Attacks

16% of Transport staff Reply to "BEC" Email Attacks



Abnormal

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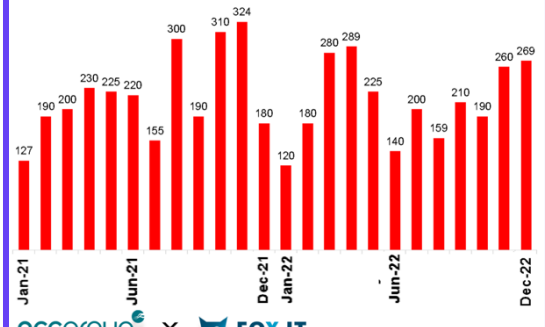
Ransomware Threat Landscape

269 known Ransom "Hack & Leak" Victims in 12/22

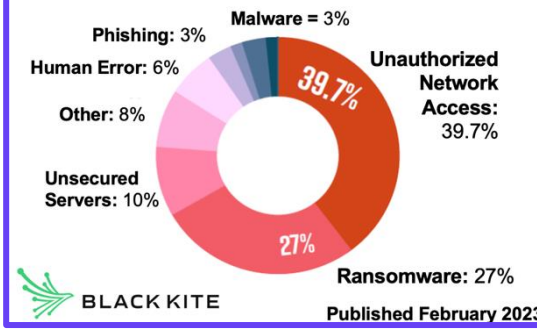


nccgroup × FOX IT

Published February 2023

Causes of 3rd Party Breaches

27% of reported 3rd Party Breaches = Ransomware



BLACK KITE

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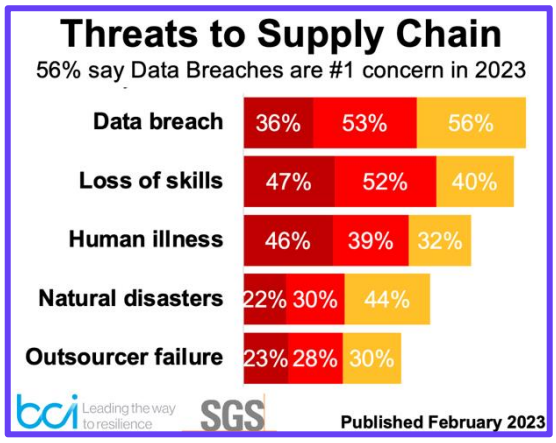

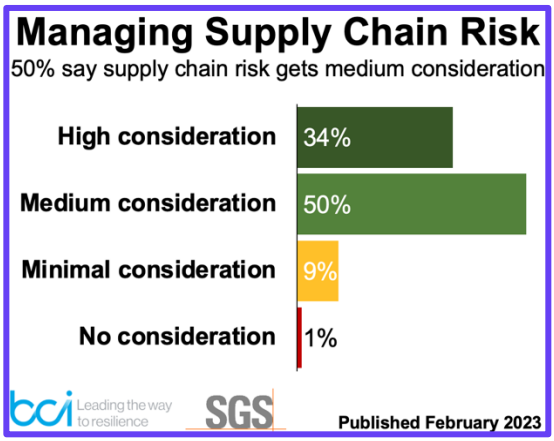

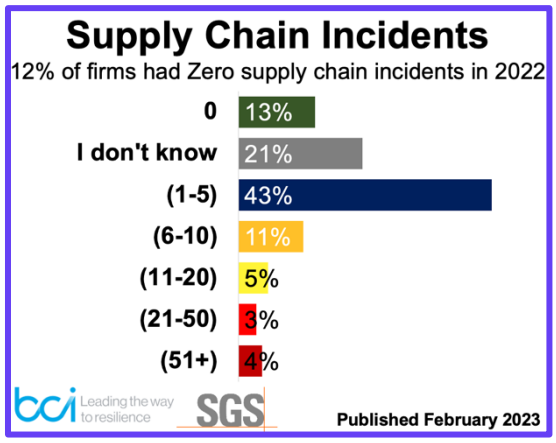

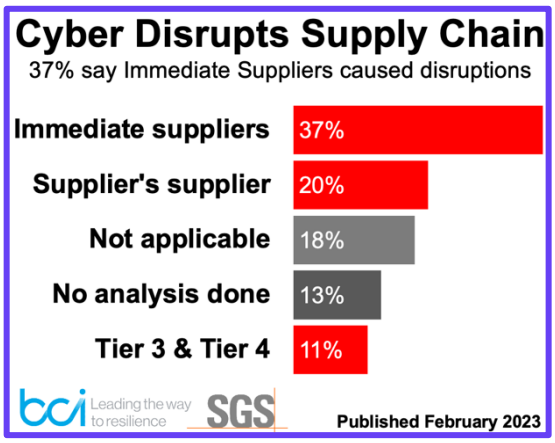

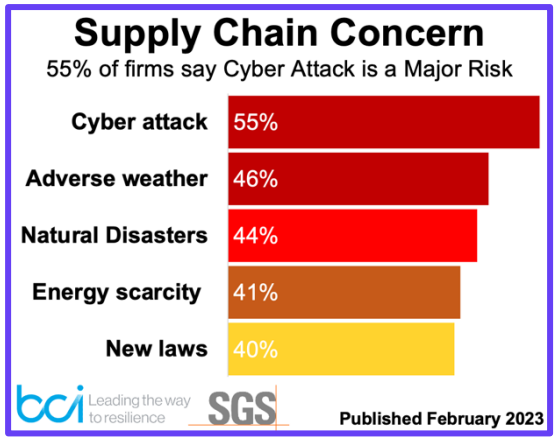

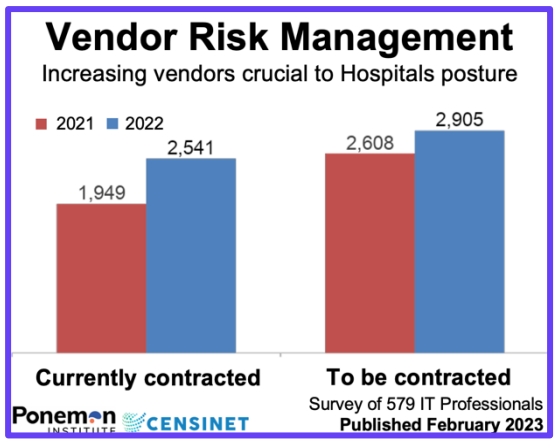

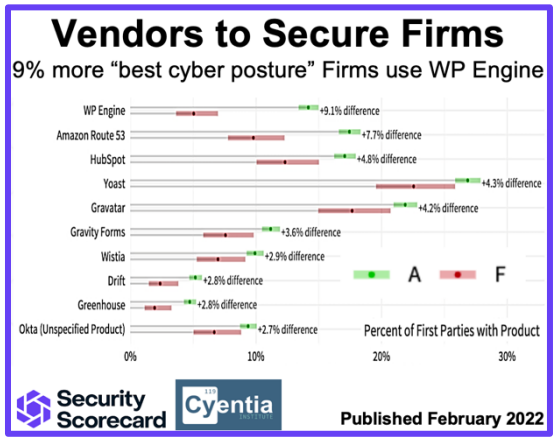

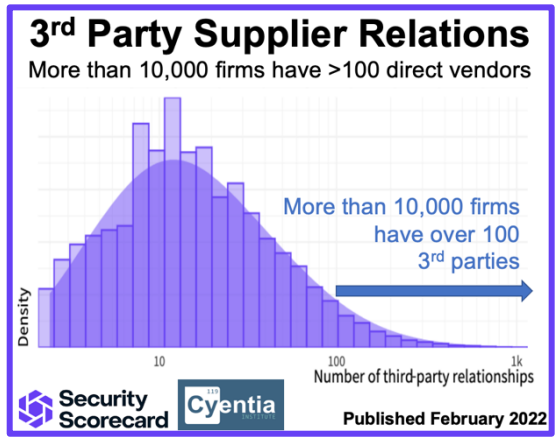

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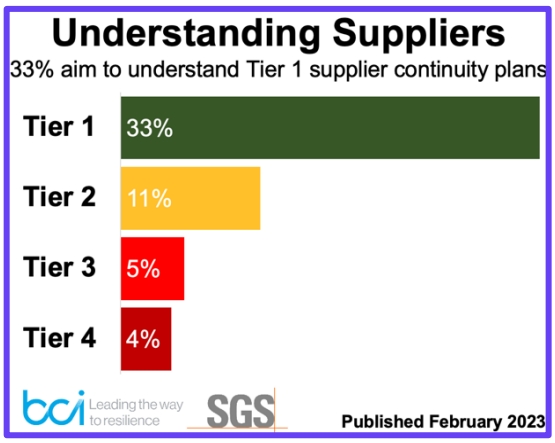

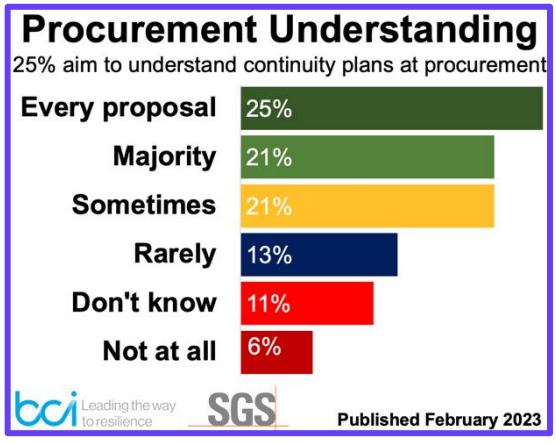

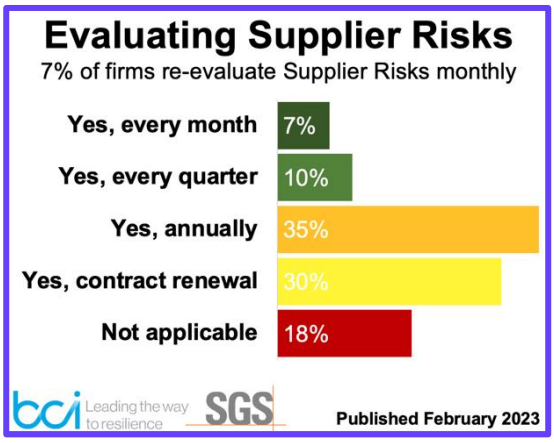

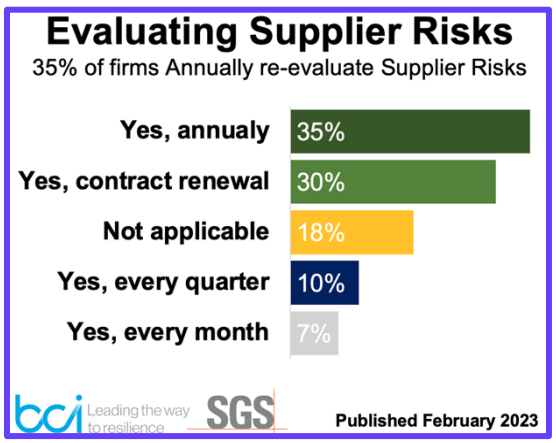

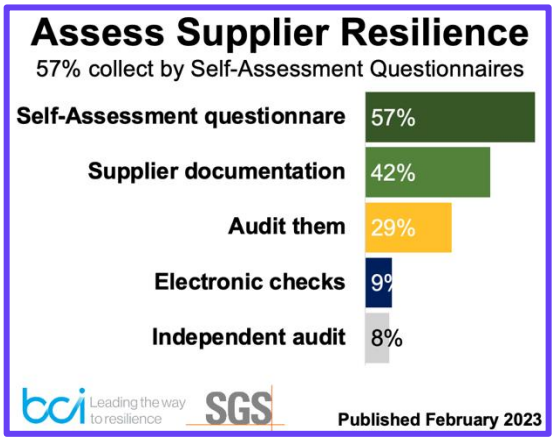

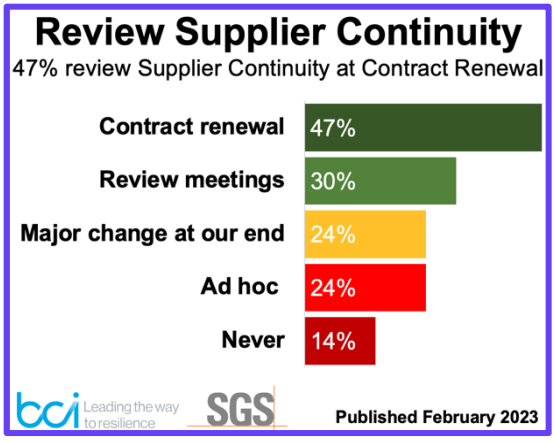

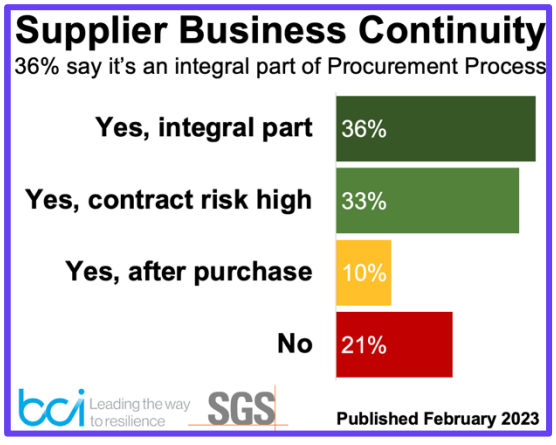

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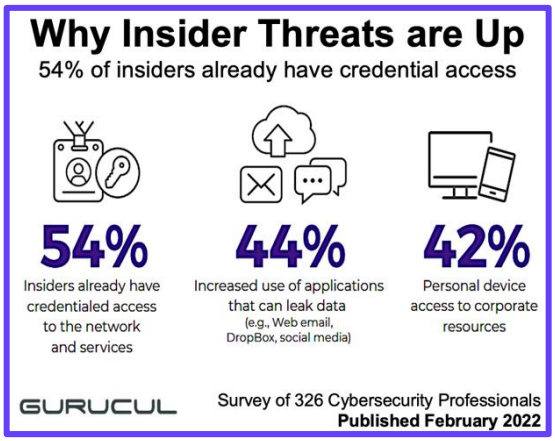

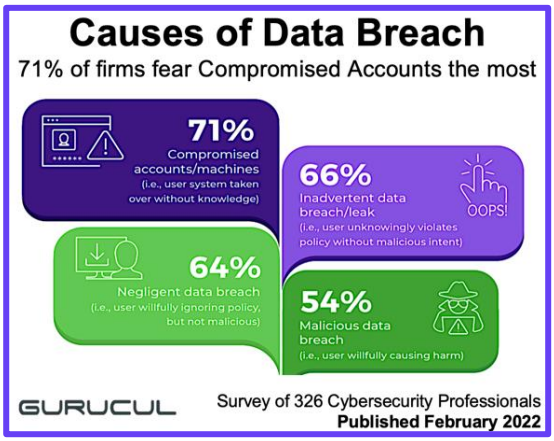

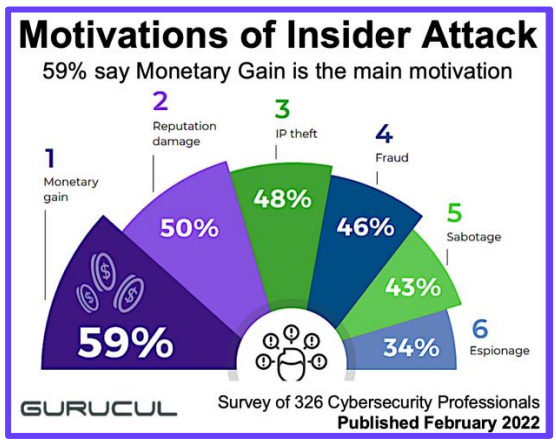

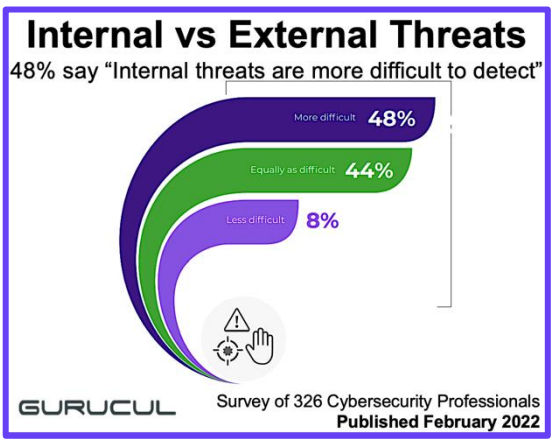

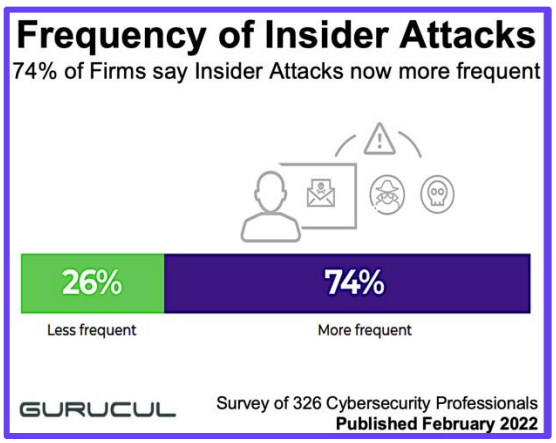

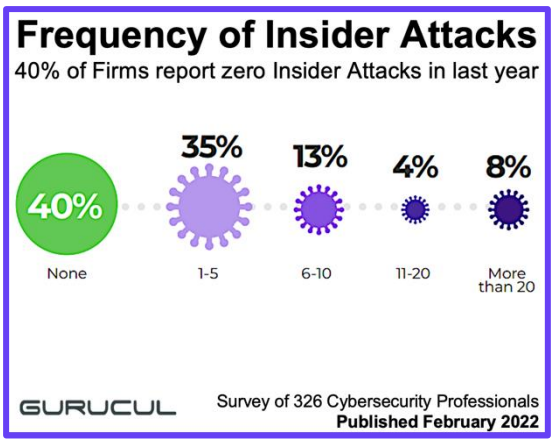

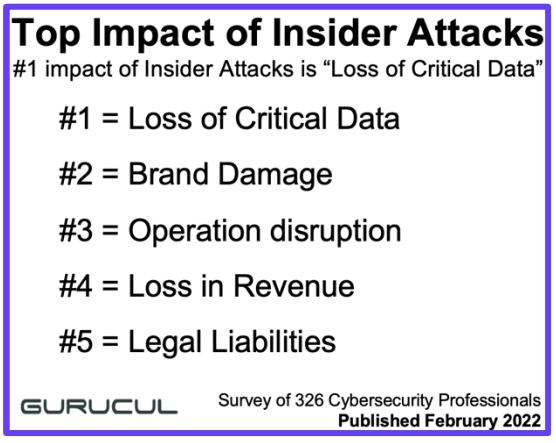

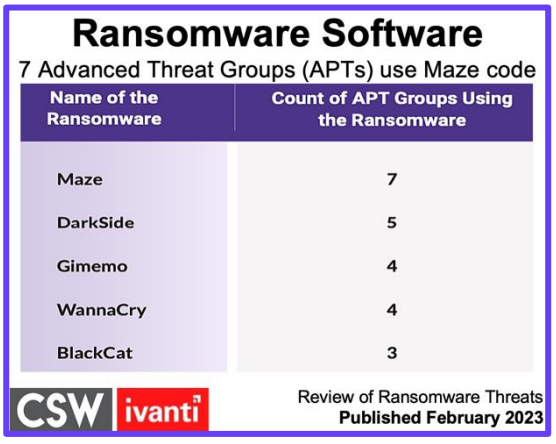

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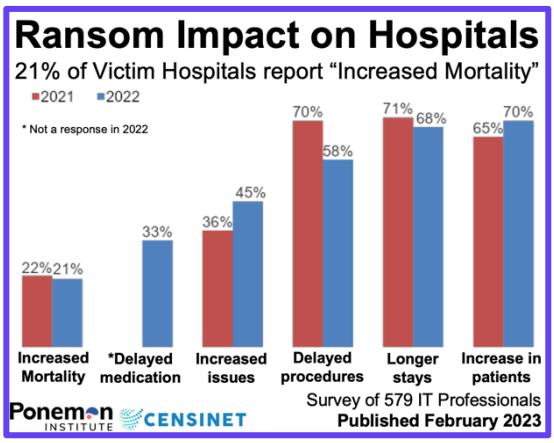

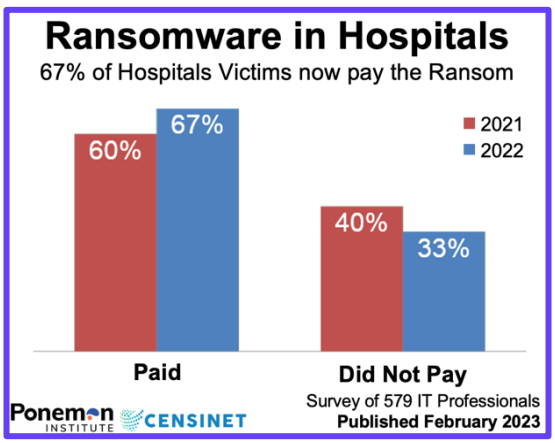

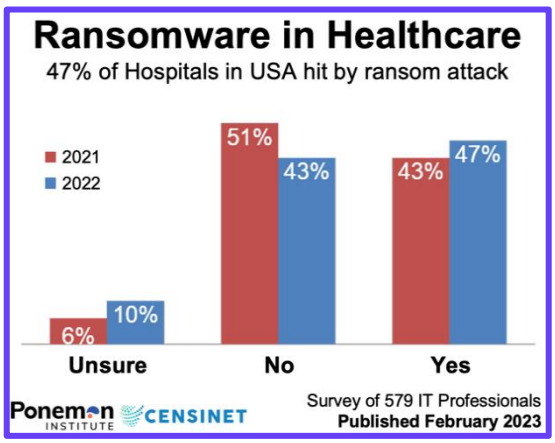

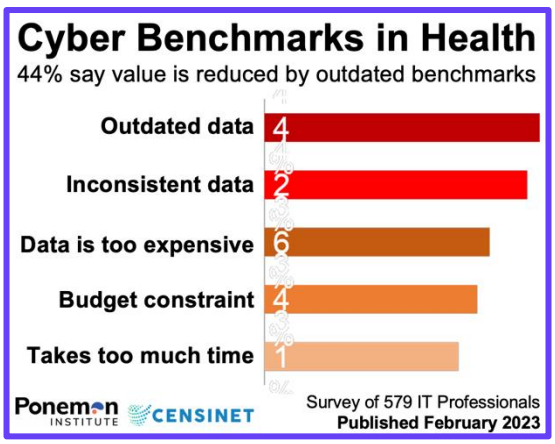

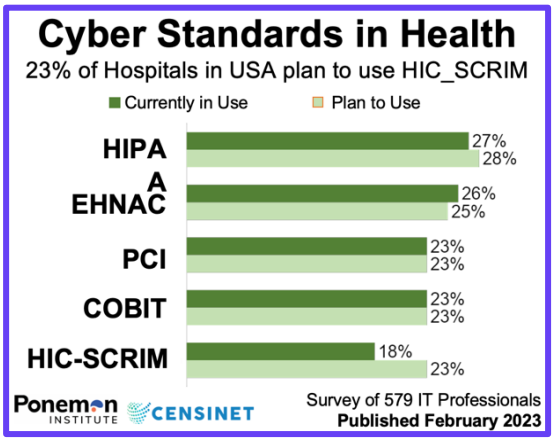

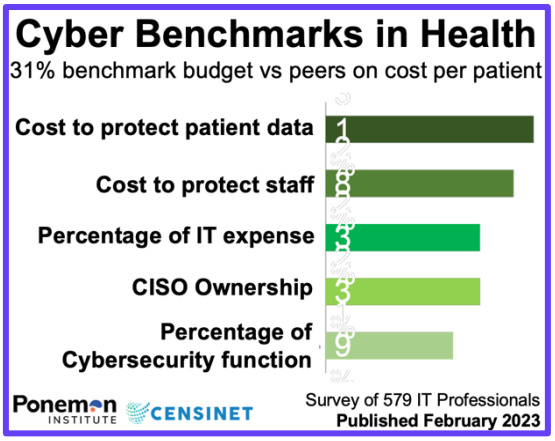

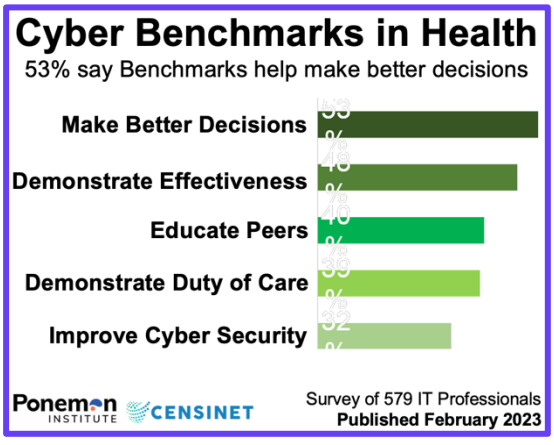

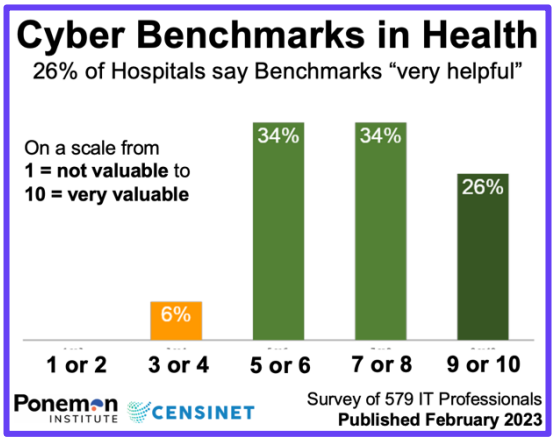

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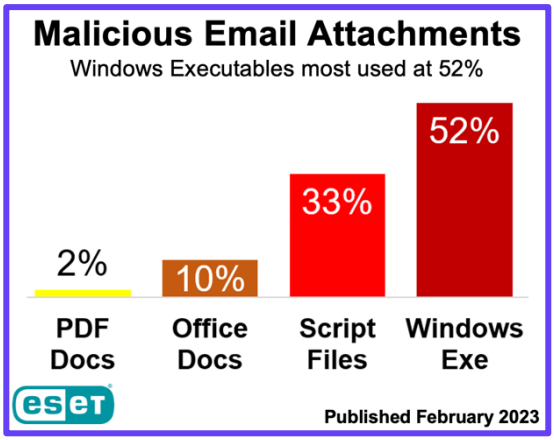

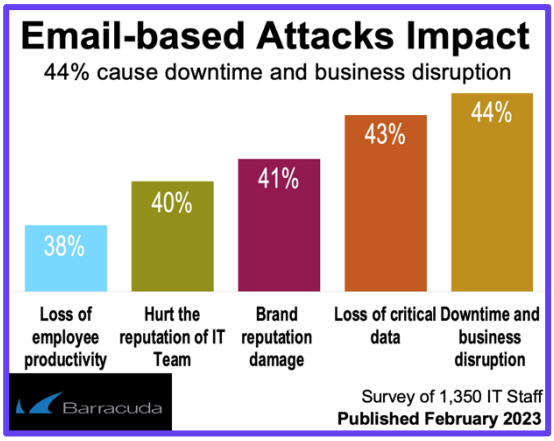

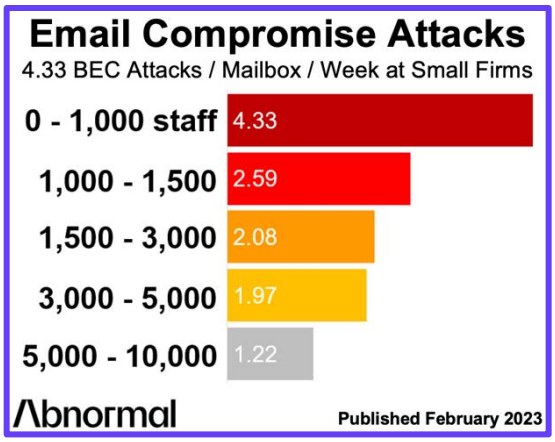

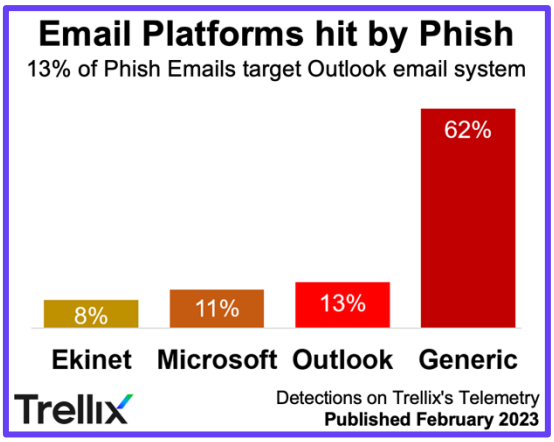

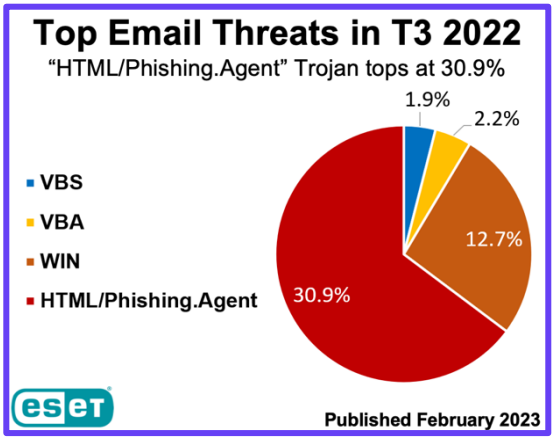

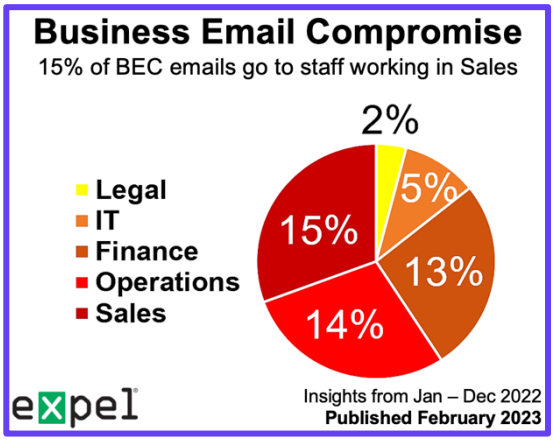

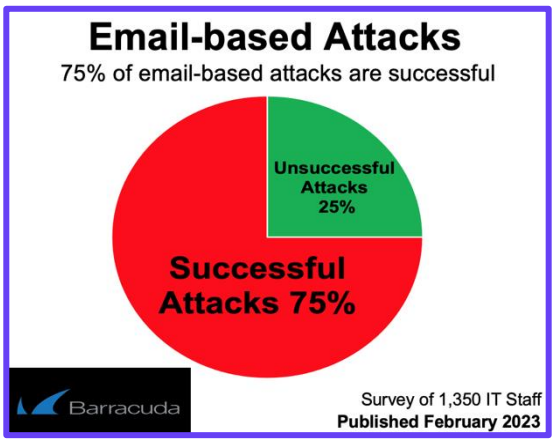

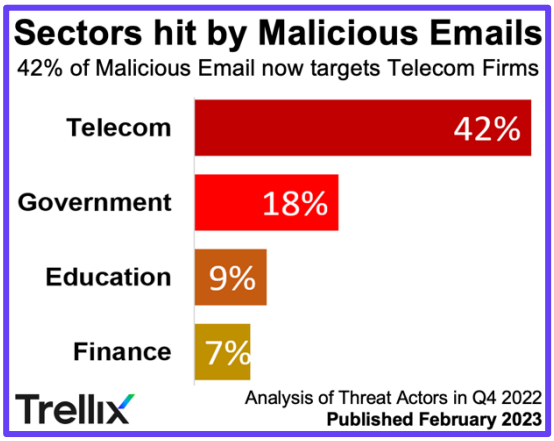

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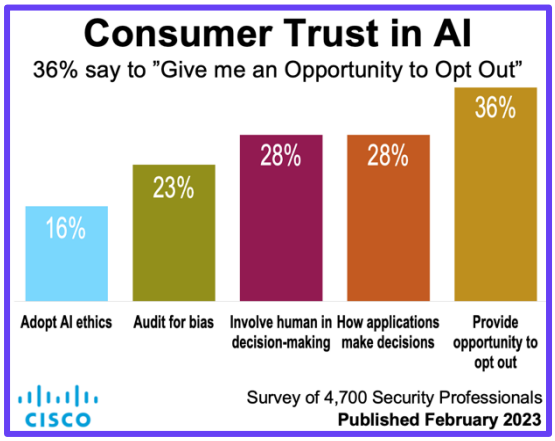
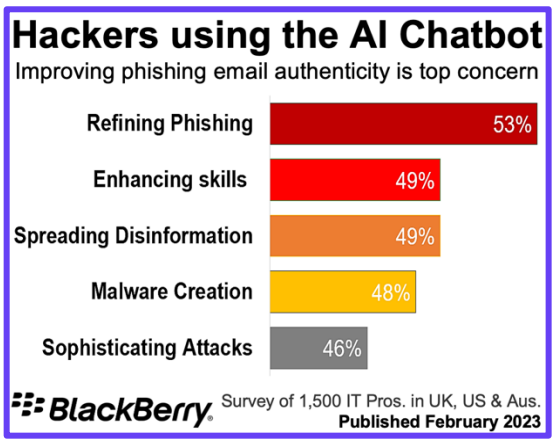
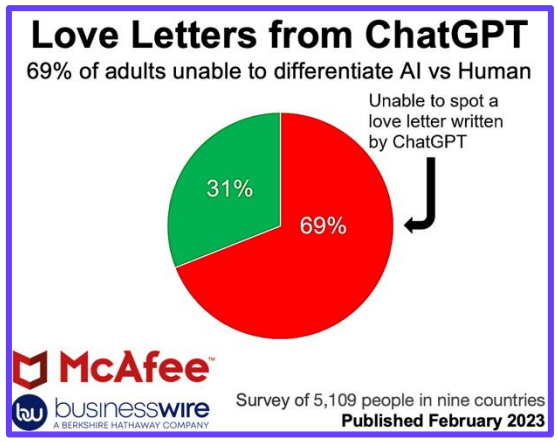
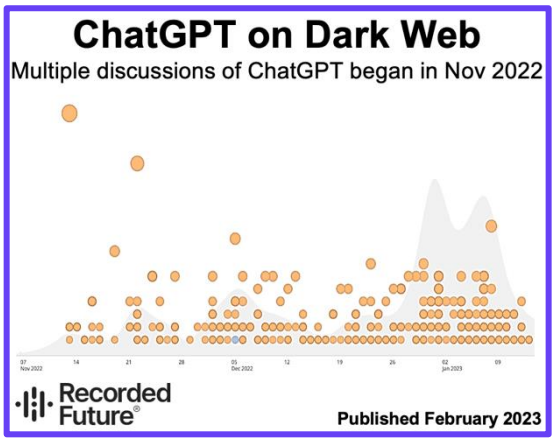
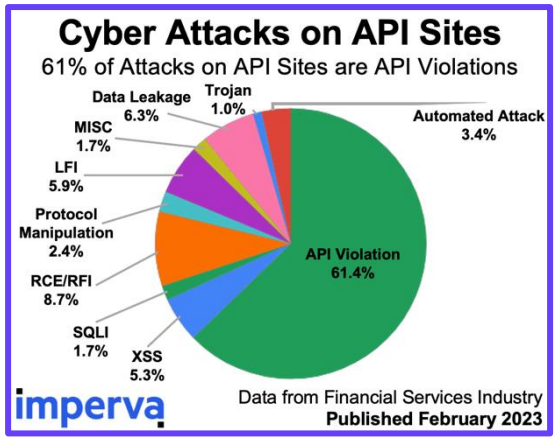
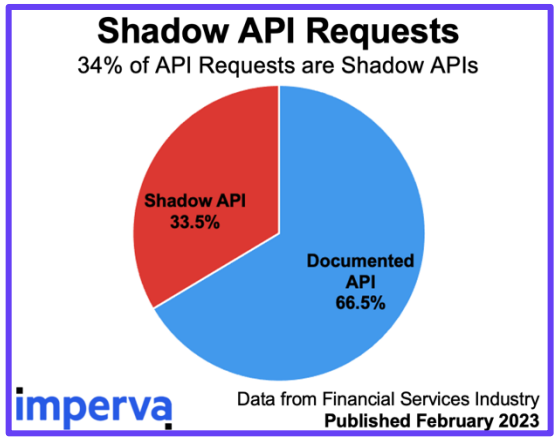


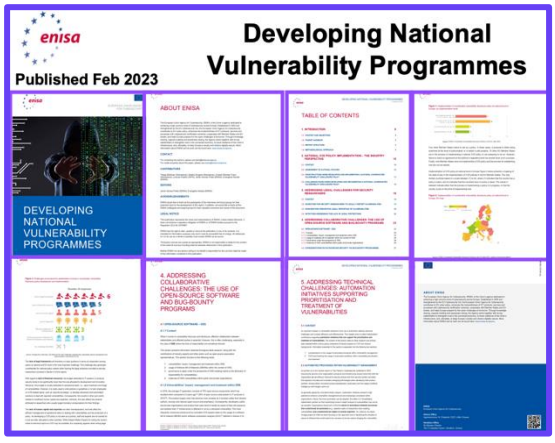












The Best Cyber Insights of 2023

Click each image to see each report in full. All were published in March 2023

Commonly used ransomware

Maze ransomware used by 7 global threat groups

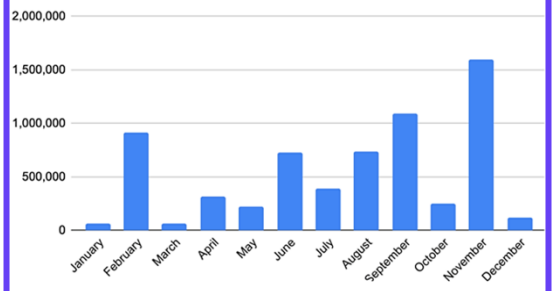
Name of the Ransomware	Count of APT Groups Using the Ransomware
Maze	7
DarkSide	5
Gimemo	4
WannaCry	4
BlackCat	3

CSW ivanti

Review of Ransomware Threats
Published February 2023

DDoS – Max RPS per month

In November DDoS max RPS reached > 1.5 million

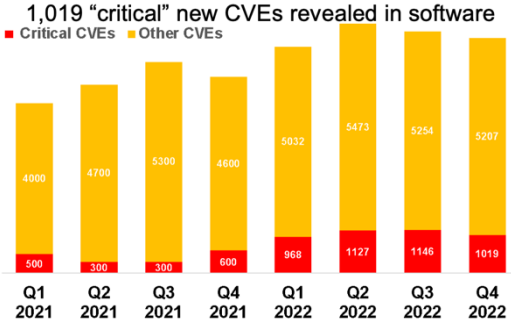


imperva

Data from Financial Services Industry
Published February 2023

Cyber Security Vulnerabilities

1,019 "critical" new CVEs revealed in software



nccgroup × FOX IT

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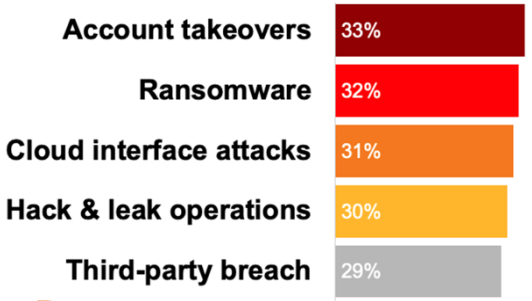
Cyber Events worrying firms

33% worry Account Takeovers will increase in 2023



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Survey of 3,552 C-Suite Execs
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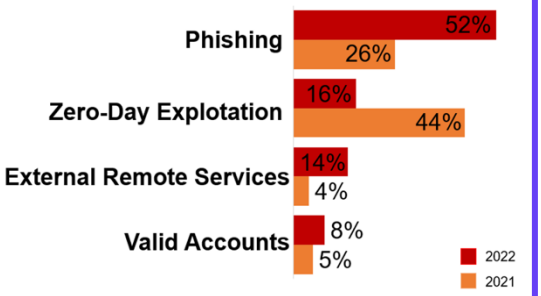
Top Cyber Attack Methods

Phishing was the most used attack method in 2022



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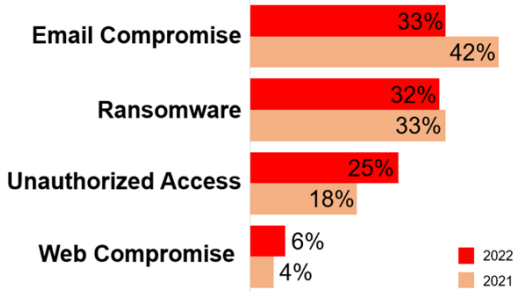
Top Cyber Threats

Email Compromise tops at 33% among threats



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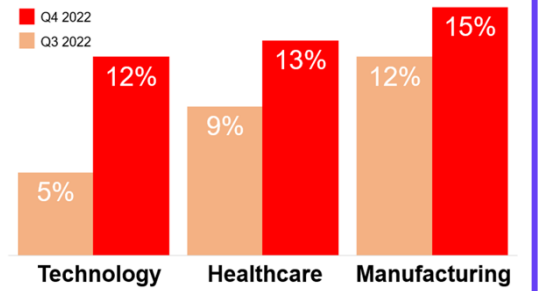
Ransom Attacks by Sector

Ransomware in Manufacturing increased by 15%



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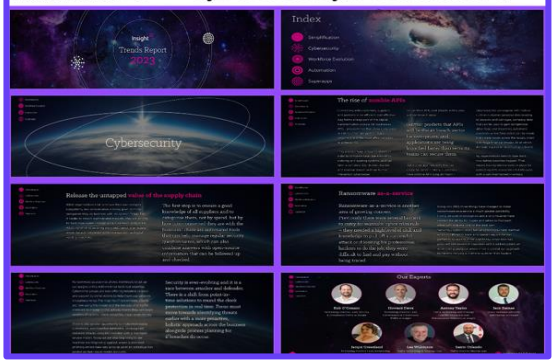
Cybersecurity Trends

Insight

Published Feb '23

Cybersecurity, Automation &



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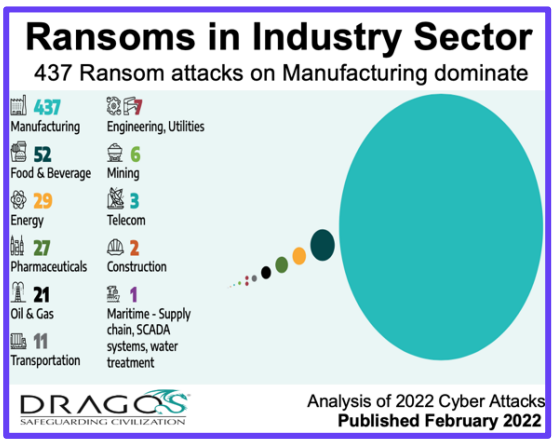

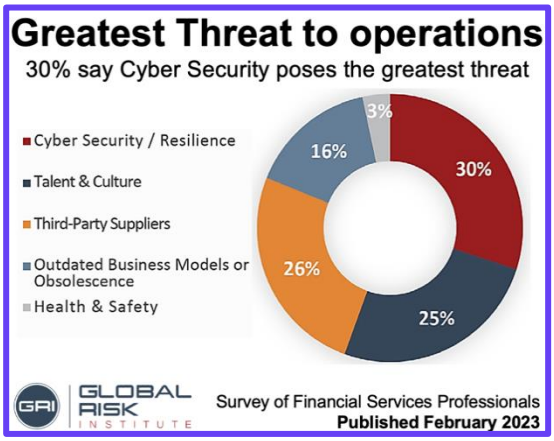

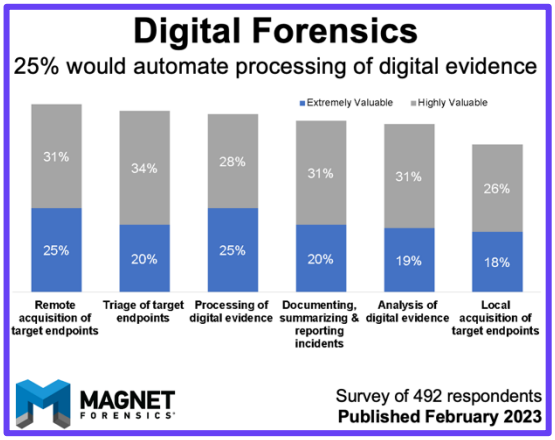

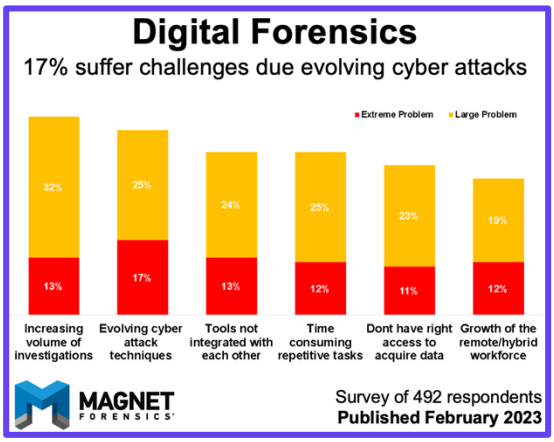

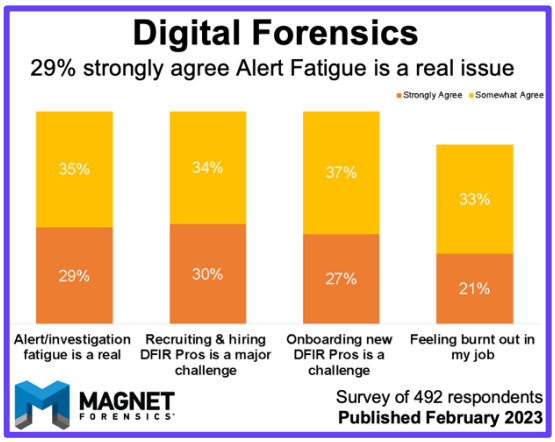

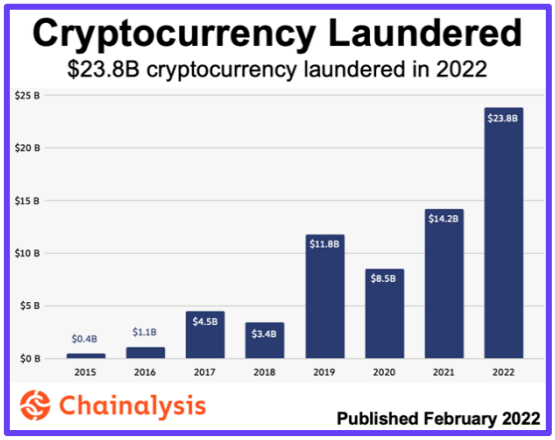

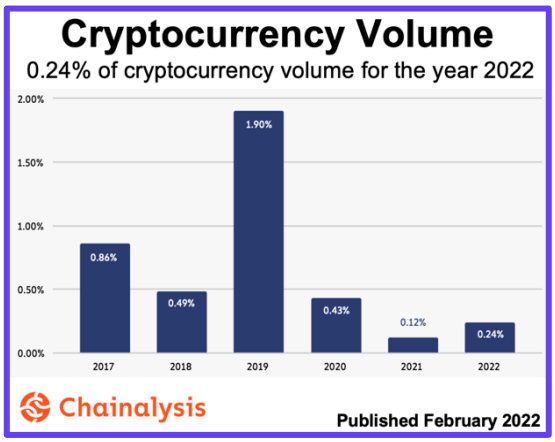

The Best Cyber Insights of 2023

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Cyber Risk Quantification

Top Five reasons that **Firms** implement CRQ

#1 = **Assess ROI** of cyber security

#2 = **Prioritise** Risk Remediations

#3 = **Quantify risk** from cyber threats

#4 = **Calibrate risk transfer** strategies

#5 = **Justify budget** for cyber security

FORRESTER®

Report on 15 CRQ vendors
Published February 2023

Cyber Risk Quantification

Top three reasons for **CISOs** to implement CRQ

#1 = **Standardise taxomony** of risks

#2 = **Reframe conversation** about risk

#3 = **Cement CISO's role** as a partner

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Report on 15 CRQ vendors
Published February 2023

Cyber Risk Quantification

Choose your Use Case column to find best Vendor

Vendor	Articulate ROI of current cybersecurity investment	Prioritize risk treatment and remediation strategies	Quantify current cybersecurity risk to boards of directors	Rationalize and calibrate risk transfer strategies	Justify current cybersecurity budget and future investment
Accenture	●		●		
Axio	●		●	●	●
Balbix	●	●	●		
Boston Consulting Group (BCG)	●	●	●		●
Cyberwrite			●	●	
Deloitte	●	●	●		●
EY	●				●
IBM	●	●	●		●
Kovrr		●	●	●	●
KPMG	●	●	●		●

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Cyber Risk Quantification

Choose your Use Case to see needed Functionality

Functionality	Articulate ROI of current cybersecurity investment	Prioritize risk treatment and remediation strategies	Quantify current cybersecurity risk to boards of directors	Rationalize and calibrate risk transfer strategies	Justify current cybersecurity budget and future investment
Model software interface	●	●	●	○	○
CRQ modeling methodology	●	●	●	●	●
Threat information capture	●	●	●	●	●
Financial impact capture	●	●	●	●	●
Model visualization	○	○	●	○	○
Risk loss exposure reporting	●	●	●	●	●
Security budget portfolio optimization	●	○	○	○	●
Cyber insurance risk coverage analysis	○	○	○	●	○
Executive reporting and dashboards	○	○	●	○	○
Analytics and benchmarking data	○	○	●	○	○

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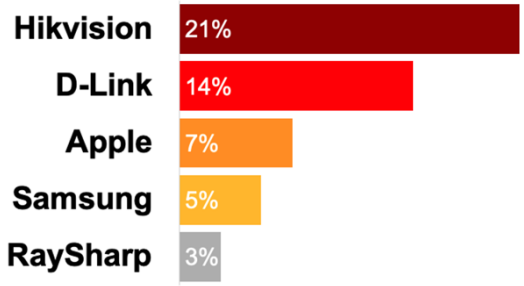
Cyber Attacks on Devices

21% of Cyber Attacks on Devices target Hikvision

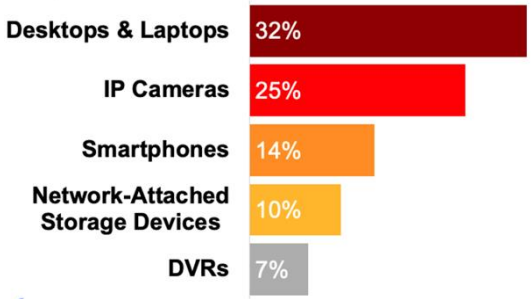


CUJOAI

Data from CUJO AI Sentry & AI Explorer
Published February 2023

Cyber Attacks on Devices

Computers are most threatened device with 31.6%



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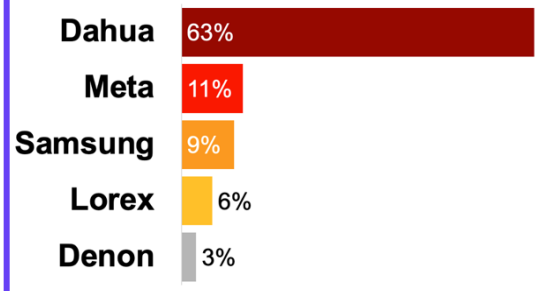
Cyber Attacks on Devices

63% of attacked Audio-Video Devices are Dahua



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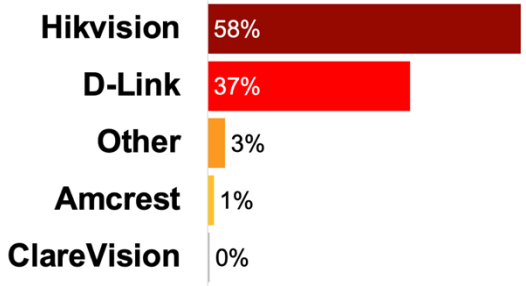
Cyber Attacks on Cameras

58% of attacked IP Camera Brands are Hikvision



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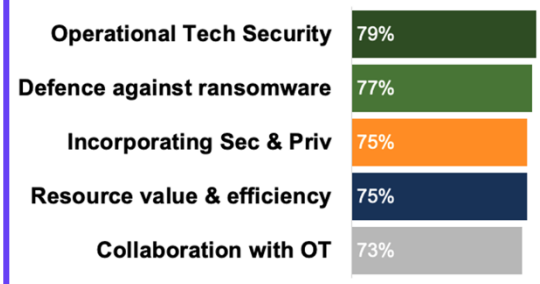
Progression of Cybersecurity

79% focused on improving Operational Tech Security



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Survey of 3,552 C-Suite Execs
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Cyber Security Culture

Best Practices to Strengthen Cybersecurity Culture

#1 = Treat **Staff** as Part of Solution

#2 = Develop a Structured **Roadmap**

#3 = Gain **Leadership** Support

#4 = Boost Cybersecurity **Knowledge**

Forbes

Published February 2023

Cyber in Australia

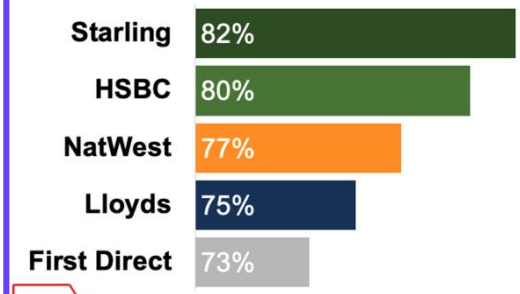
UpGuard

Top 200 Australian firms Cybersecurity

Published Feb '23

Online Bank Security in UK

Starling "has best UK online security for customers"



Which? Trusted traders

Data from Which's investigation
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Top Perceived Risk for 2023

#2 Risk for Financial Services firms is Economic

#1 = Economic

#2 = **Cyber**

#3 = Credit

#4 = Geopolitical

#5 = Talent

GRI GLOBAL RISK INSTITUTE

Survey of Financial Services Professionals
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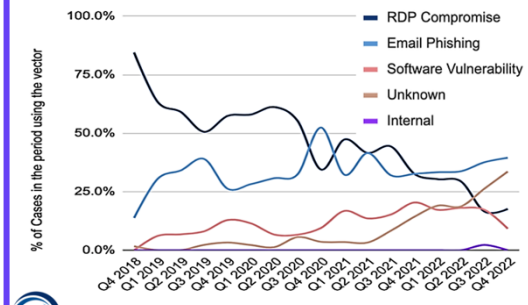
How Firms hit by Ransom

Email Phishing is now the top attack vector



COVEWARE

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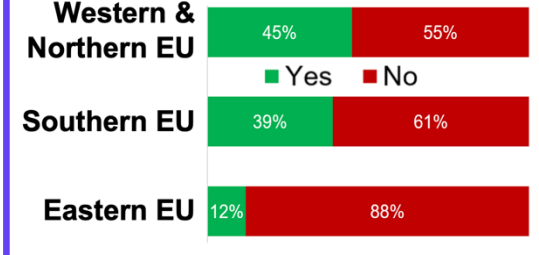
Insuring Essential Services

% of Essential Services Firms with Cyber Insurance



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262 Essential Services Operators
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It's time for Cyber ILS

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Insurance-Linked Securities are here!

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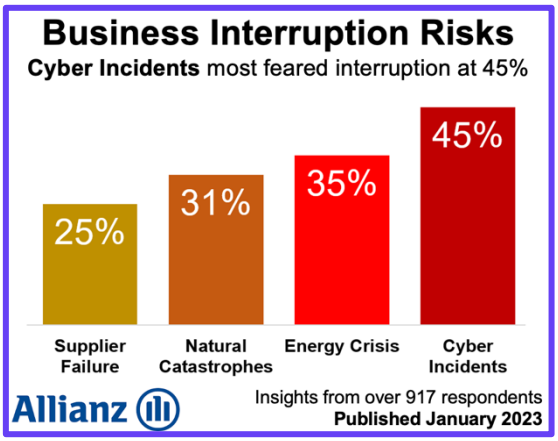

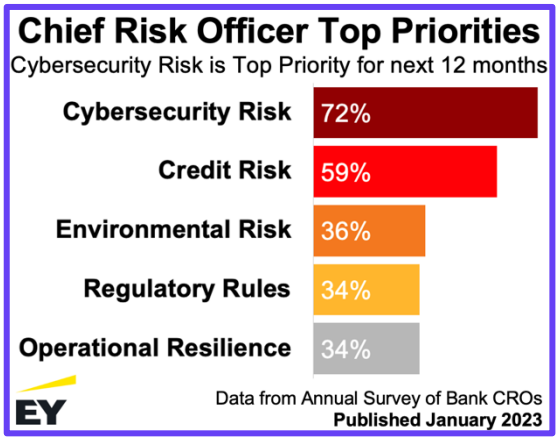

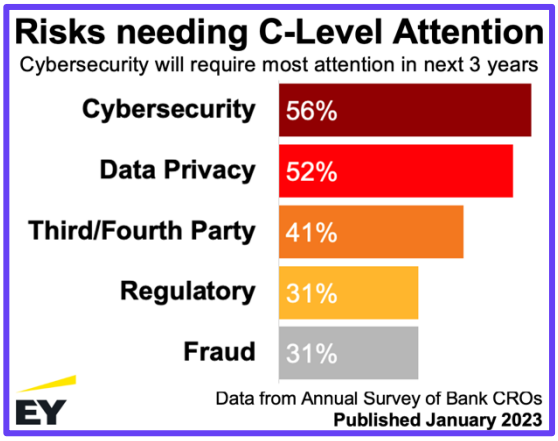

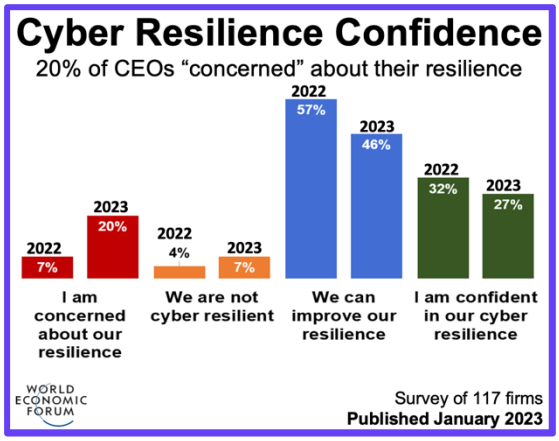

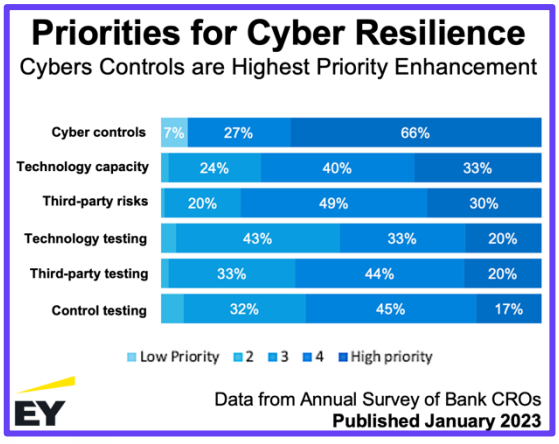

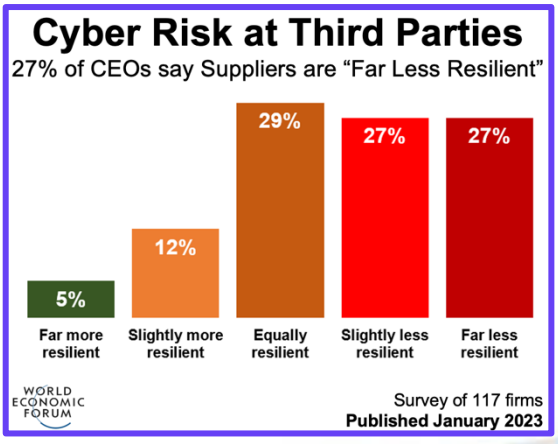

Cyber Insights: *Ransomware Attacks*

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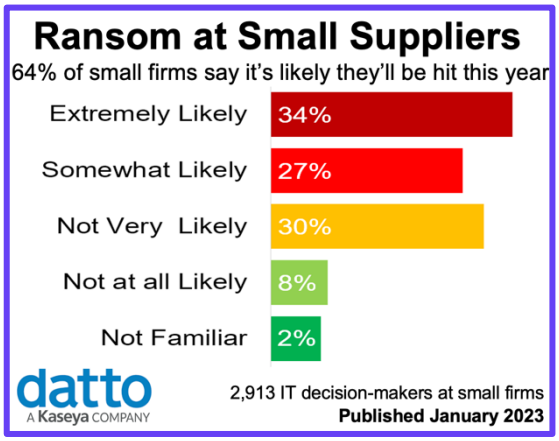

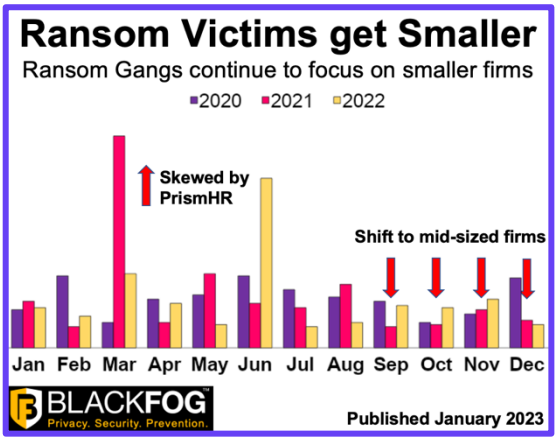

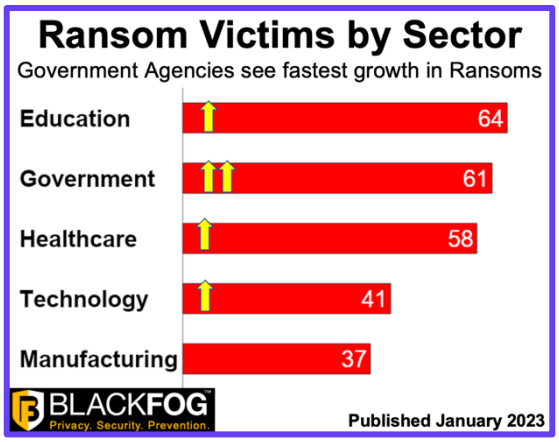

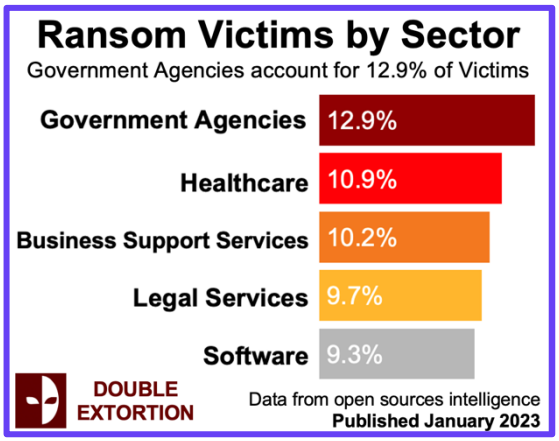

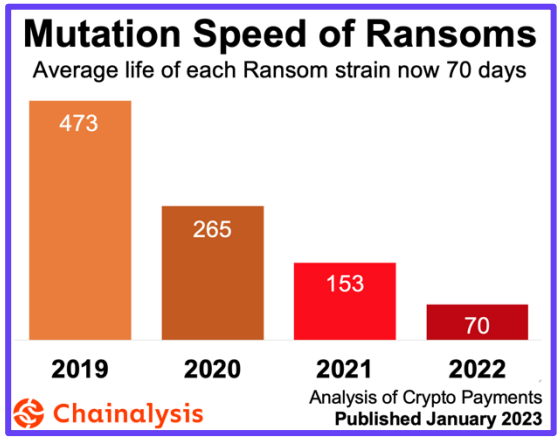

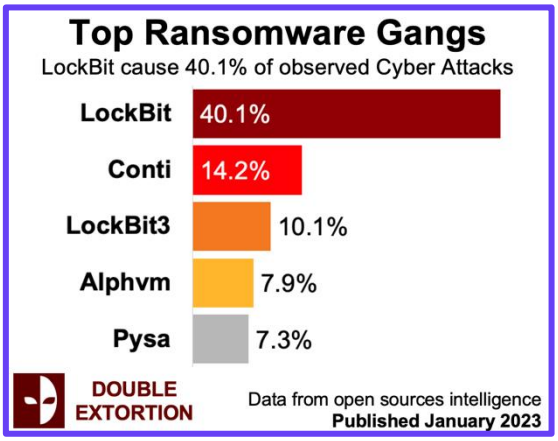

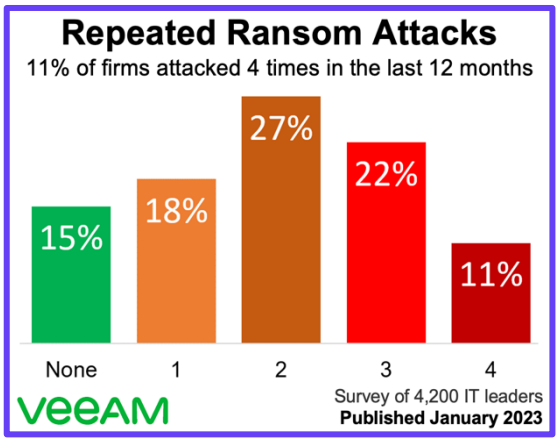

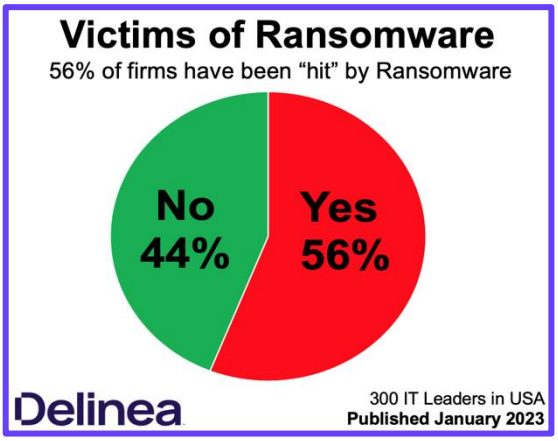

Cyber Insights: *Cyber Financials*

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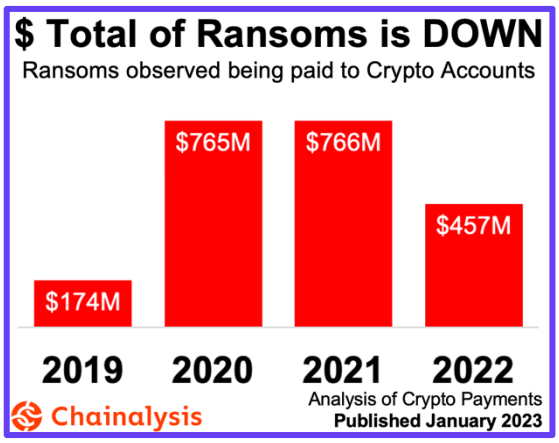

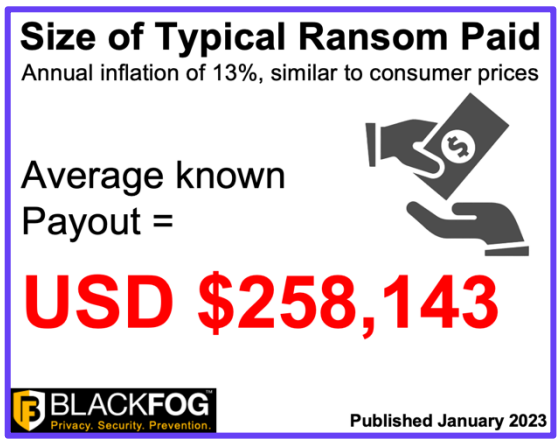

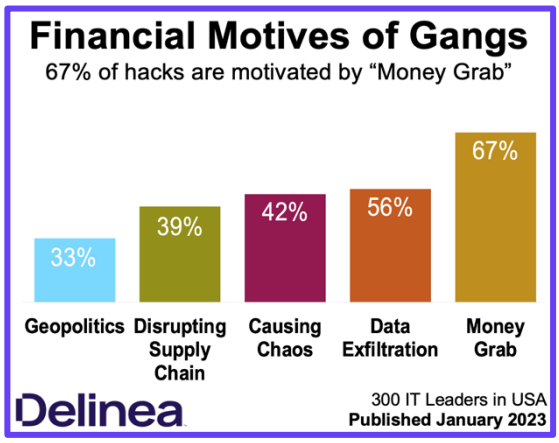

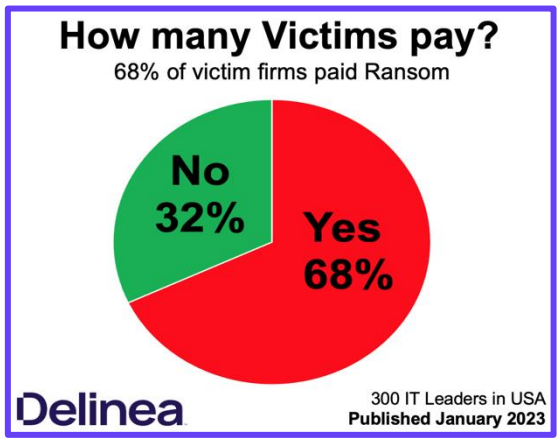

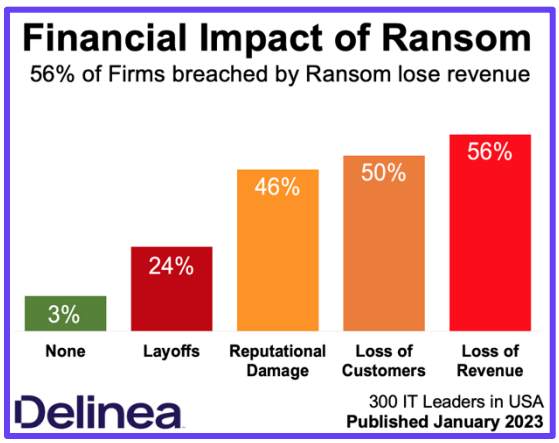

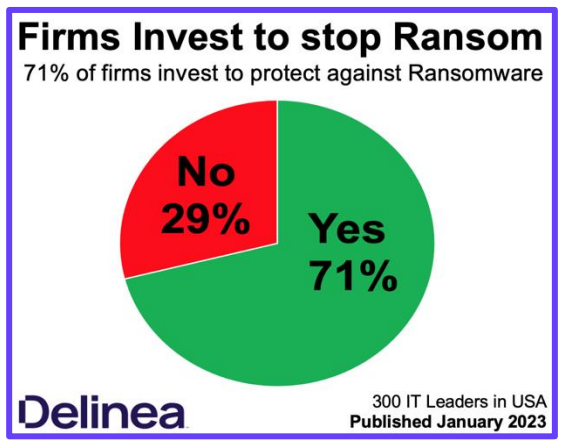

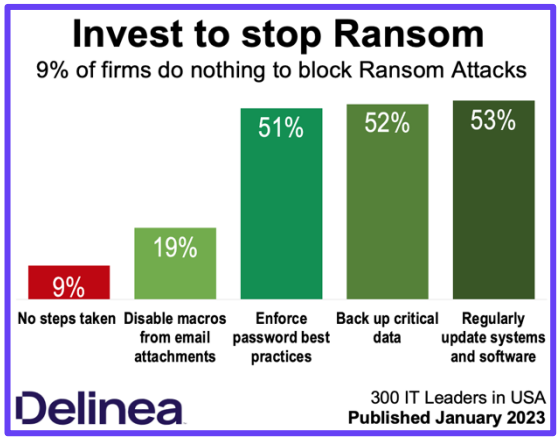

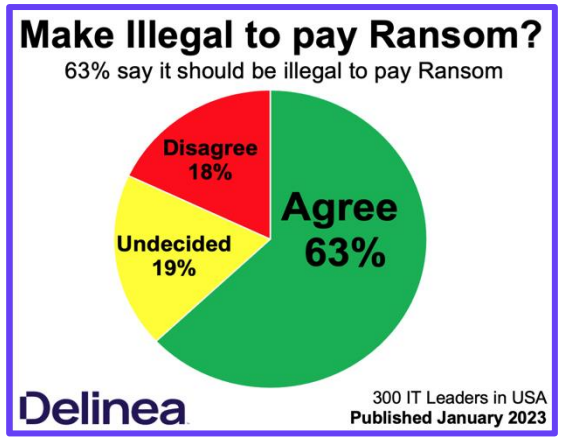

Cyber Insights: *Cyber Insurance*

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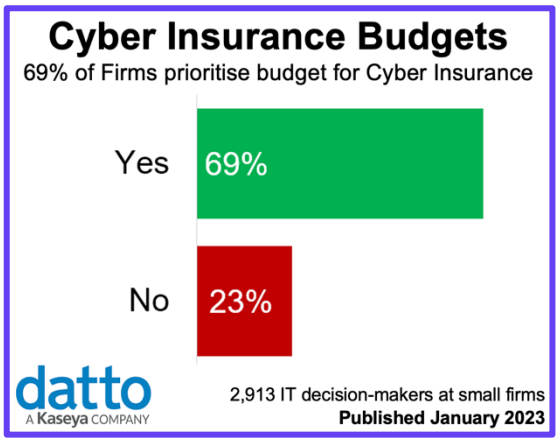

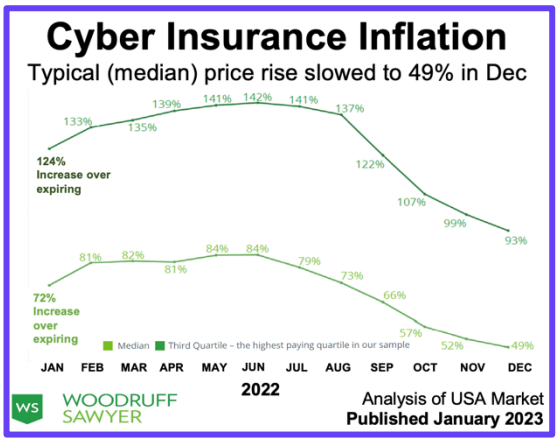

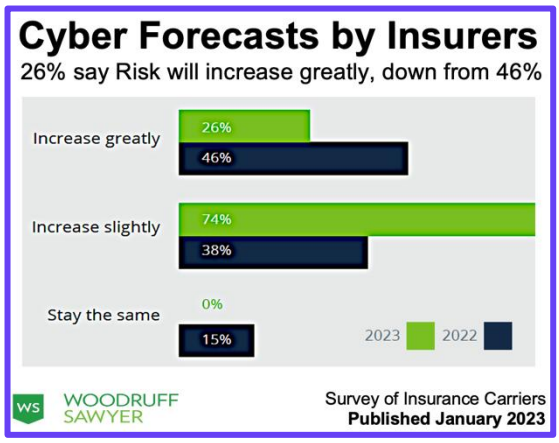

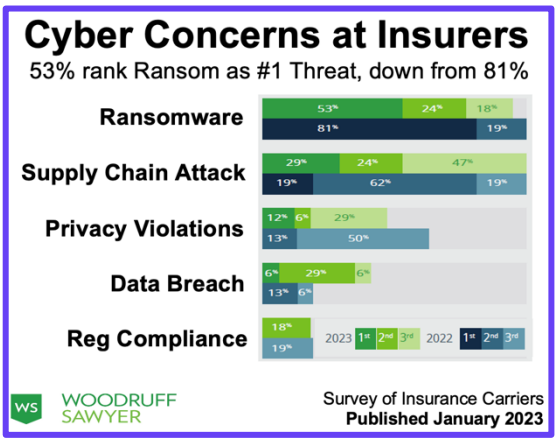

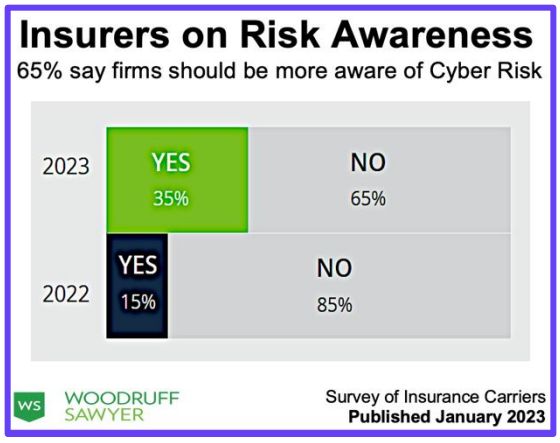

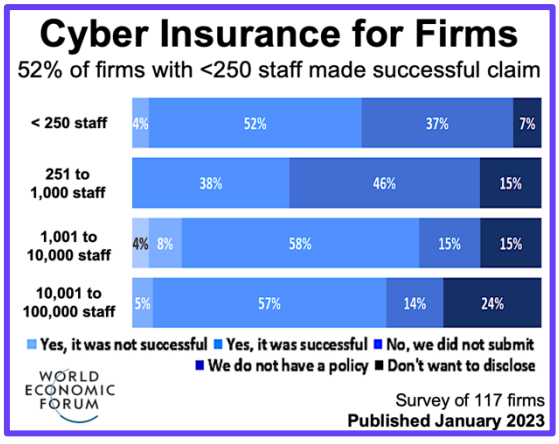

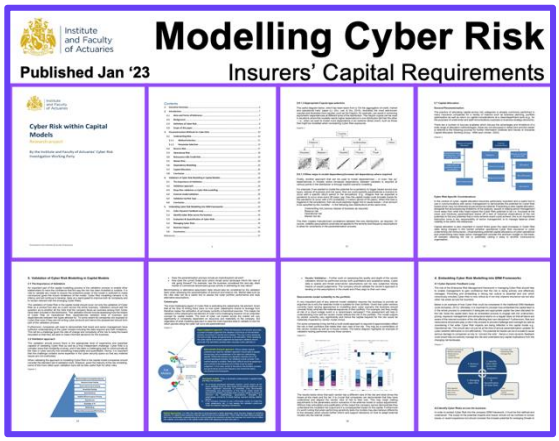

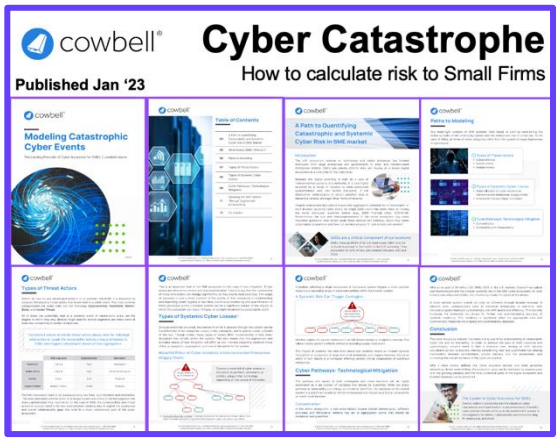

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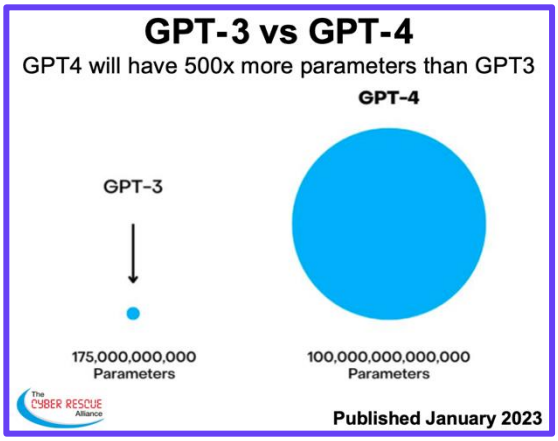

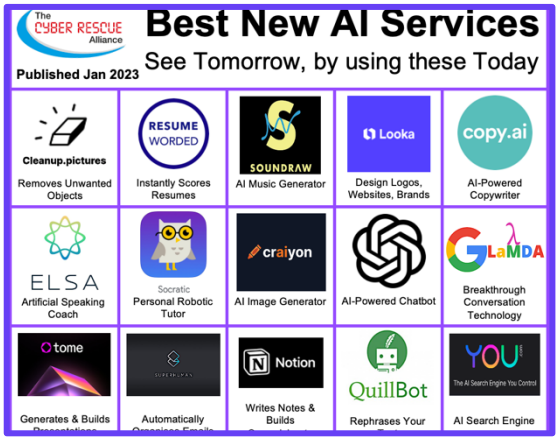

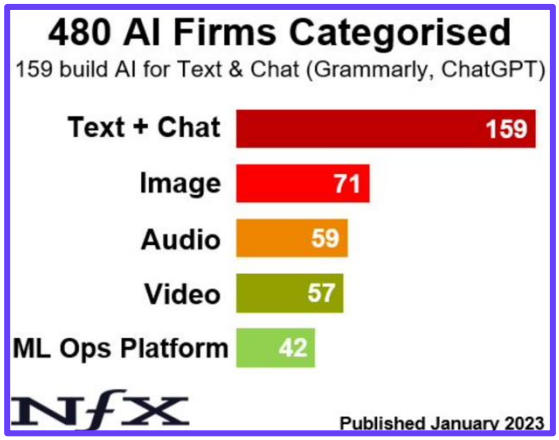

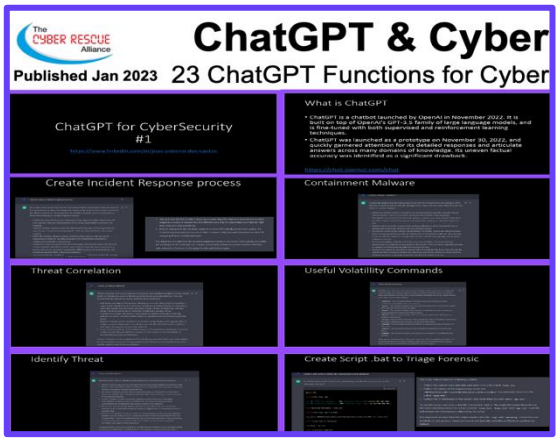

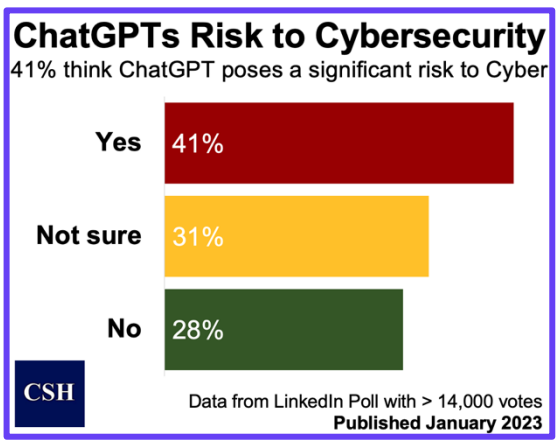

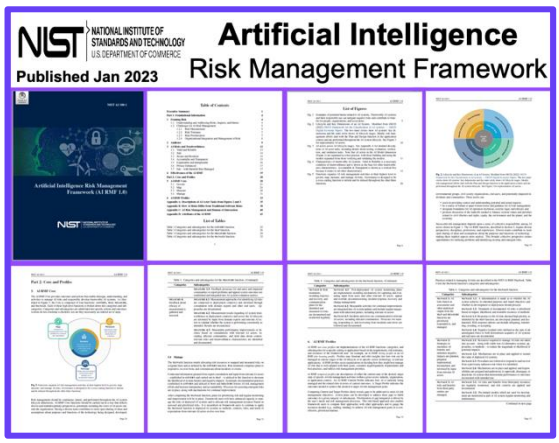

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Davos Global Risks Report

Cyber is #4 for Firms

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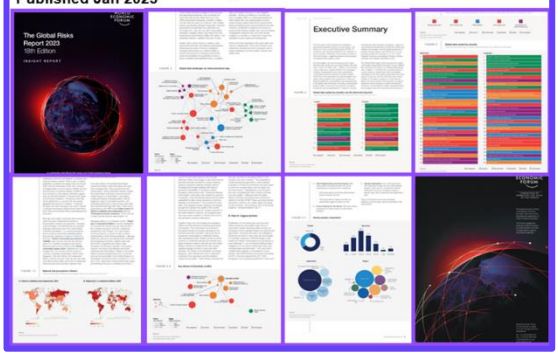


Davos Report on Risks to Firms

Experts list **Cyber Insecurity** as key a risk to 2025

#1 = Cost of Living Crisis

#2 = Natural Disasters

#3 = Geo-Economic confrontation

#4 = **Cyber Insecurity**

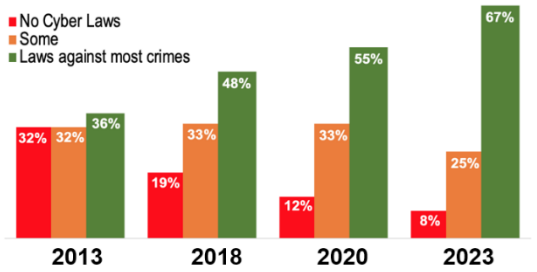
#5 = Environmental Damage

Insights from over 1,200 experts

Published January 2023

Cyber Laws in Each Country

67% of UN Member States have substantive laws



Survey of 94% UN Member States

Published January 2023

10 Laws of Cyber Security

Microsoft's "Immutable Laws of Cyber Security"

- **Define Success** Ruin your attacker's ROI
- **Keep Up** Patch continuously
- **Productivity Wins** Automate for efficiency
- **Attackers don't care** Understand options
- **Prioritize to Survive** Know what's important
- **Cyber is Team Sport** Outsource to experts
- **Zero Level Trust** Don't Trust Network
- **Isolated Networks** aren't always secure
- **Encryption Protects** But it isn't enough
- **Tech doesn't solve** Invest: People & Process

Published January 2023

Top 5 Cyber Posture Metrics

Asset Inventory Coverage is the Top Posture Metric

#1 = Asset Inventory Coverage

#2 = Software Inventory Coverage

#3 = Security Controls Coverage

#4 = Vulnerability Assessment Coverage

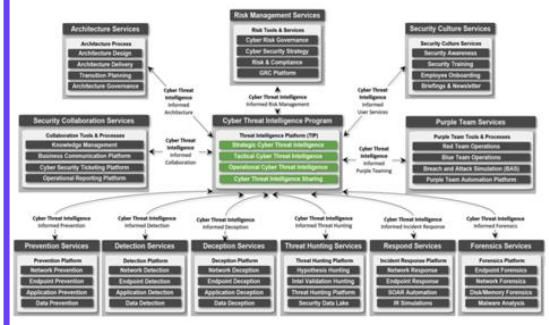
#5 = Mean Age of Open Vulnerabilities

Based on ability to link Security to Business

Published December 2022

Cyber Threat Intelligence Services

Why should they be part of your cybersecurity strategy?



Correlated Security

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Trust Deficit in Cyber

Cyber Transparency is Key

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Publish your Strategy

Cyber Strategy at a Medical Firm

Published Jan 2023

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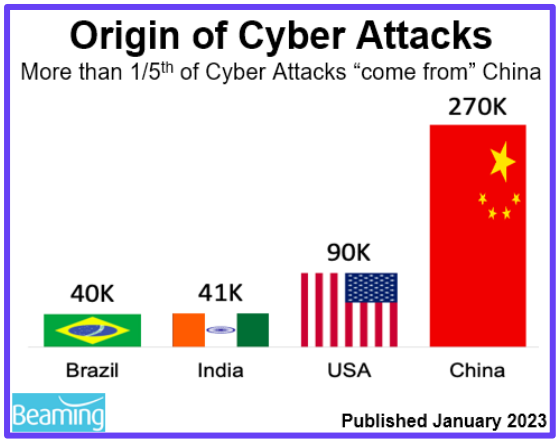

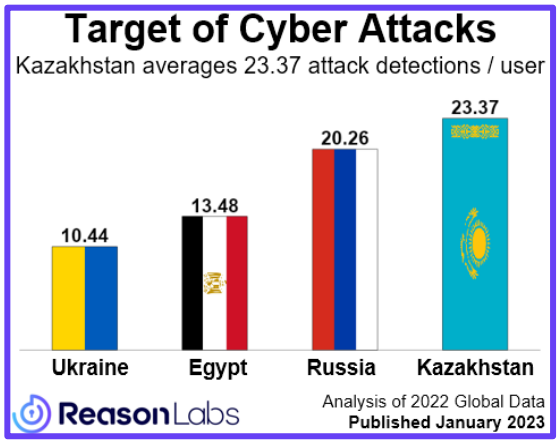

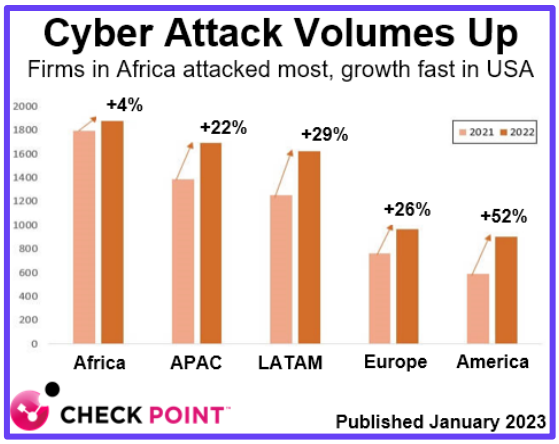

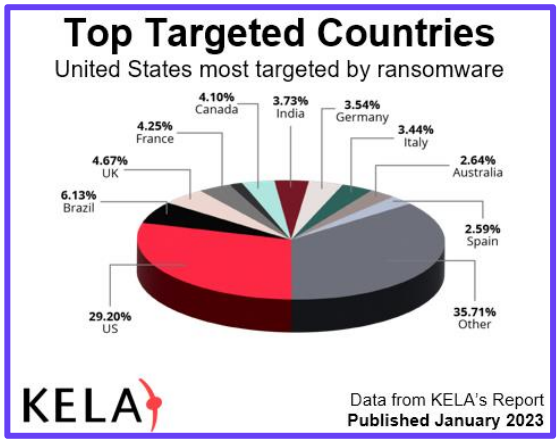

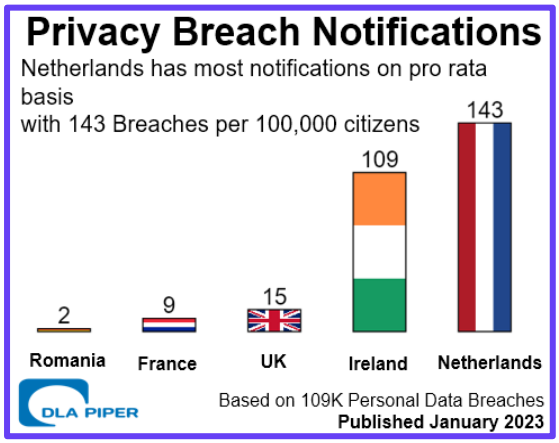

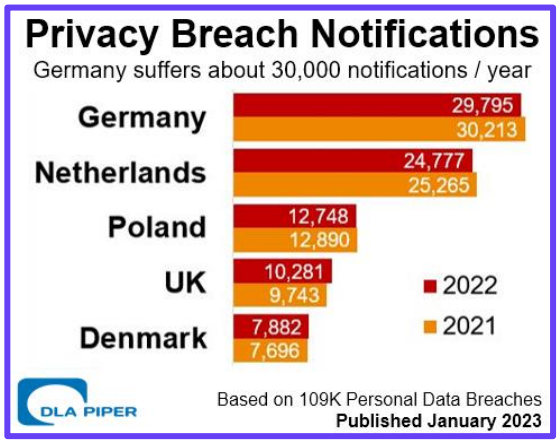

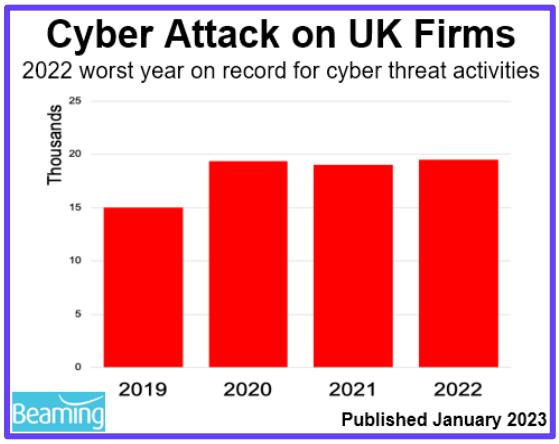

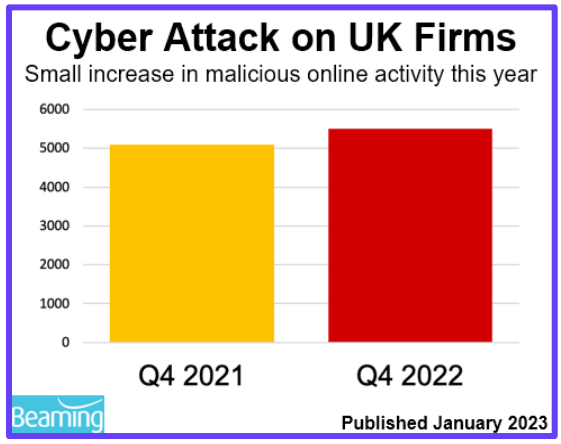

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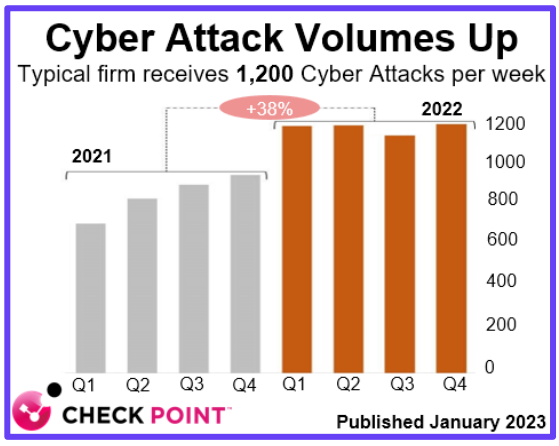

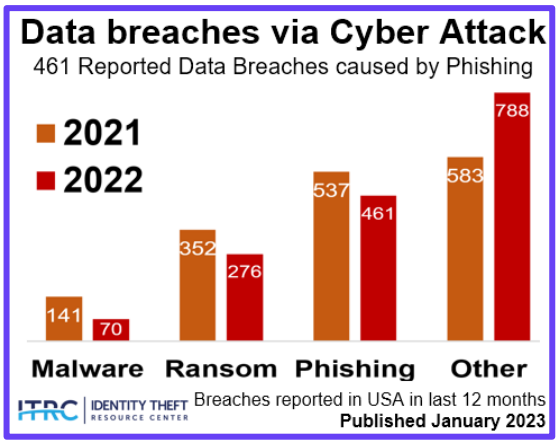

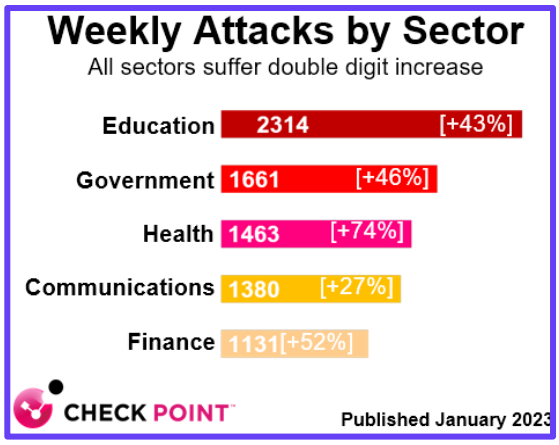

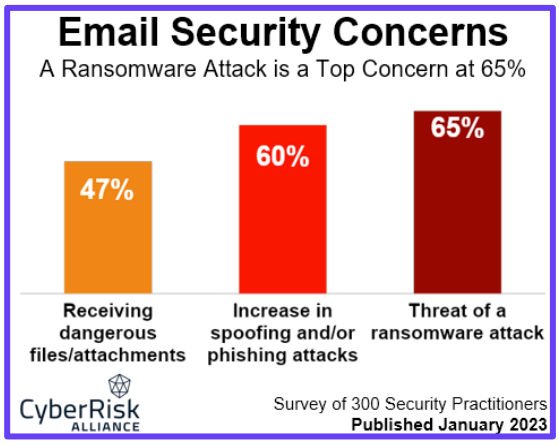

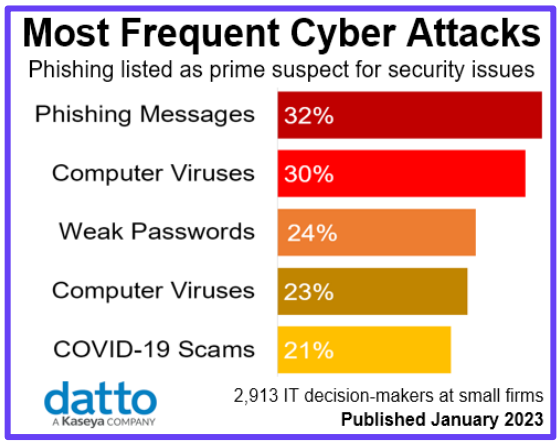

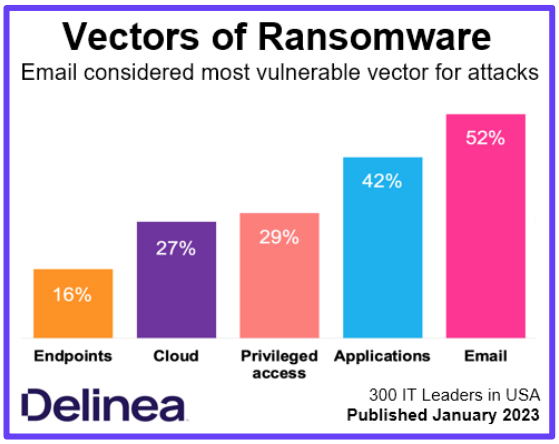

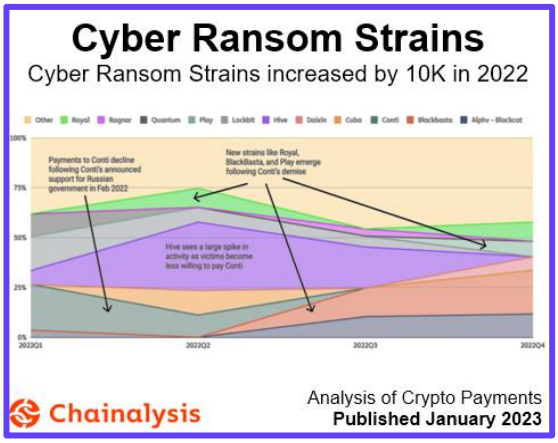

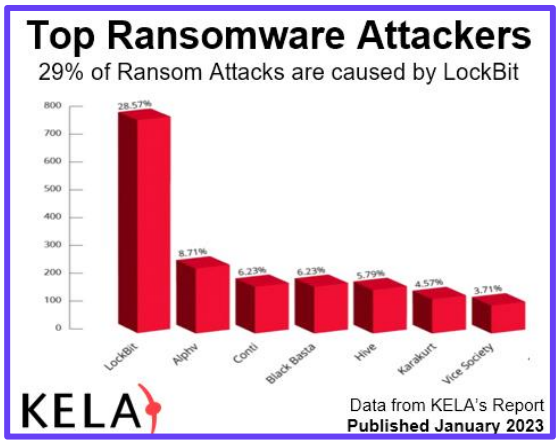

Cyber Insights: *Cyber by Sector*

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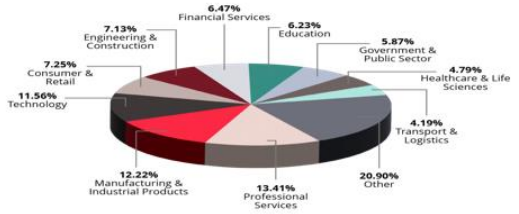
Sectors attacked most often

Manufacturing most targeted sector at 17%

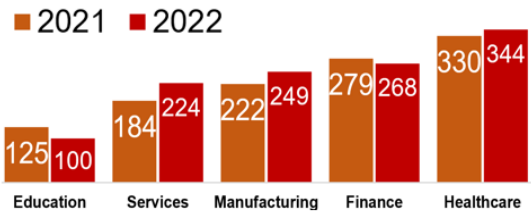


KELA

Data from KELA's Report
Published January 2023

Sectors breached most often

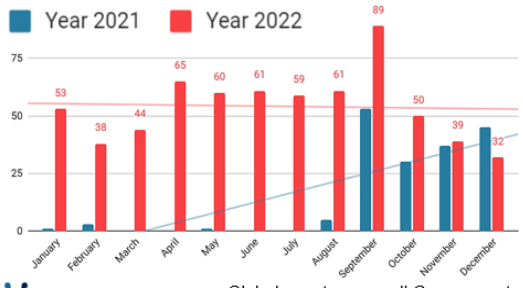
344 Reported Data Breaches at USA Health Firms



ITRC | IDENTITY THEFT RESOURCE CENTER Breaches reported in USA in last 12 months
Published January 2023

CyberAttacks on Government

Number of attacks up 95% in H2 2022 vs H2 2021

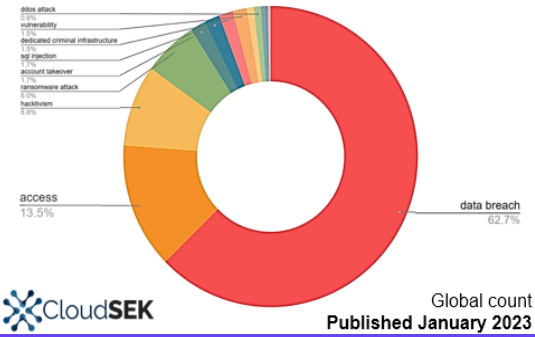


CloudSEK

Global count across all Governments
Published January 2023

CyberAttacks on Government

63% of reports by Governments are of Data Breach

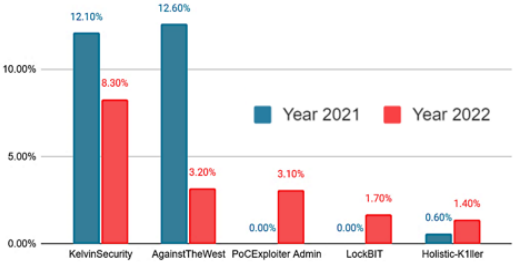


CloudSEK

Global count
Published January 2023

CyberAttacks on Government

KelvinSecurity & AgainstTheWest claim most attacks

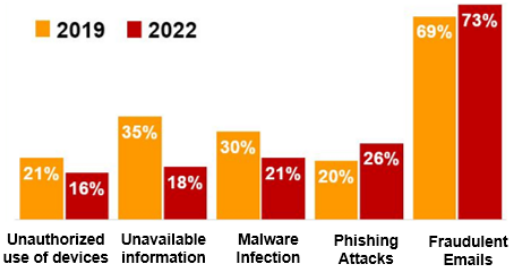


CloudSEK

Global count across all Governments
Published January 2023

UK Schools Cyber Incidents

Fraudulent Emails now account for 73% of Incidents

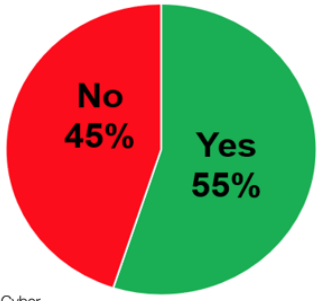


National Cyber Security Centre
a part of GCHQ

Survey of 805 UK Schools
Published January 2023

UK Schools Cyber Training

55% Non-IT Staff Received Cyber Security Training

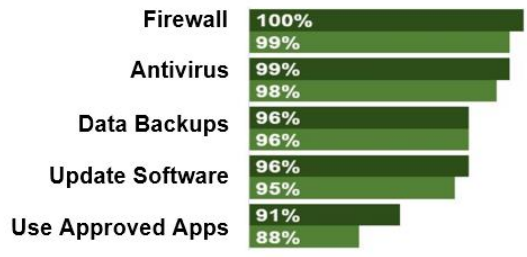


National Cyber Security Centre
a part of GCHQ

Survey of 805 UK Schools
Published January 2023

Cyber Security in Schools

100% of UK Schools have implemented Firewalls

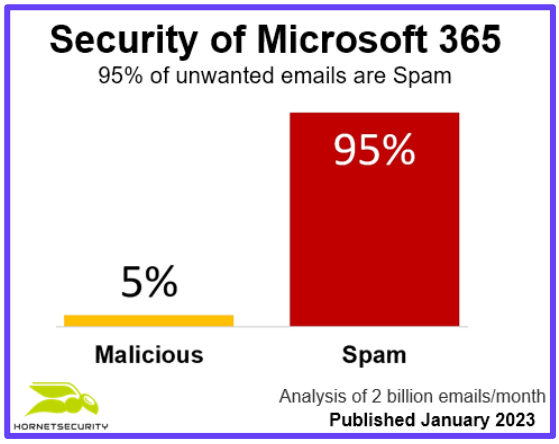


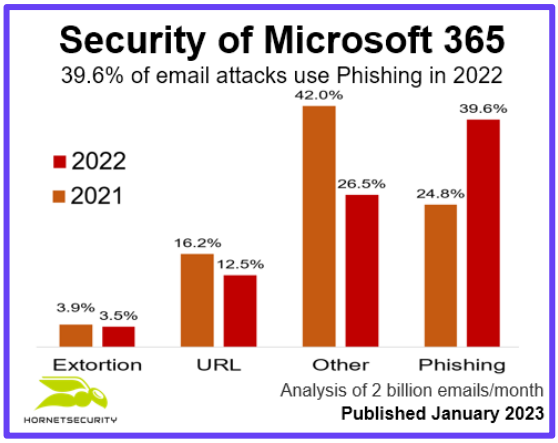
National Cyber Security Centre
a part of GCHQ

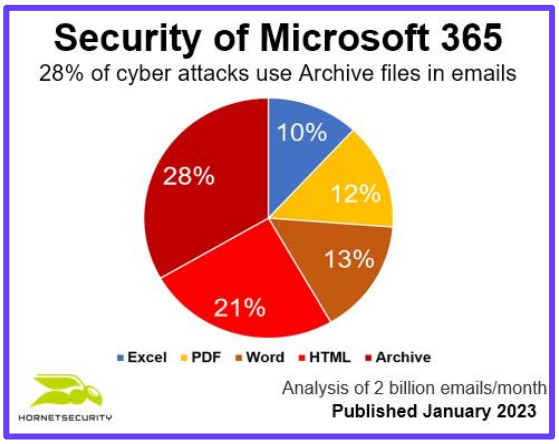
Survey of 805 UK Schools
Published January 2023

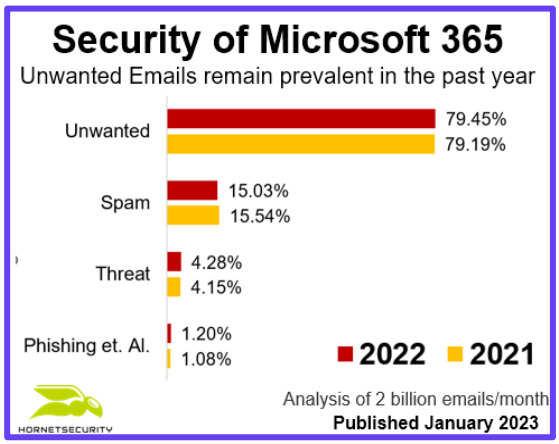
Cyber Insights: *Microsoft & Remote Workers*

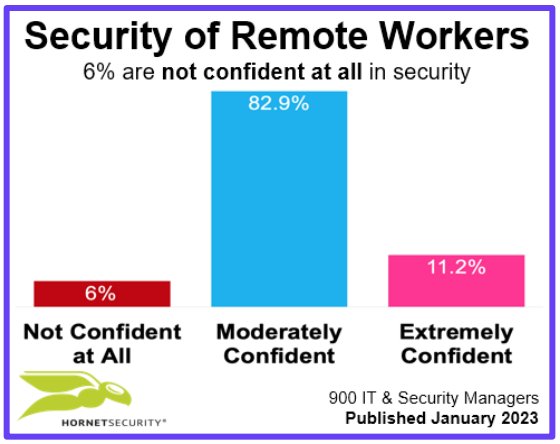
Click each image to see each report in full. All were published in month to February 2023

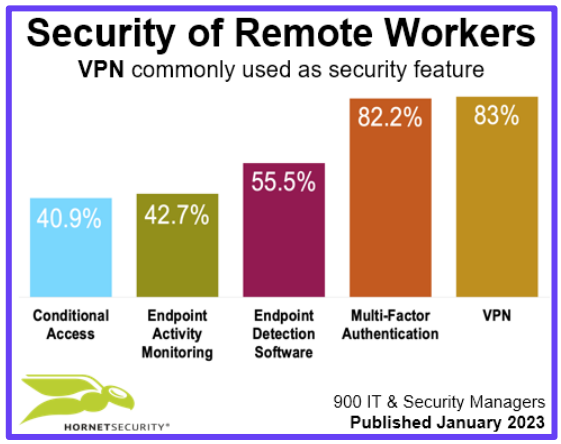


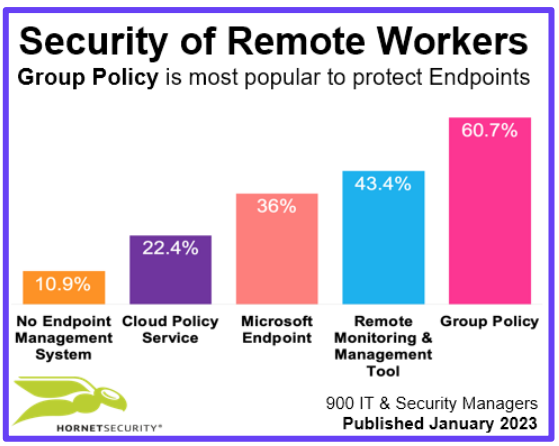


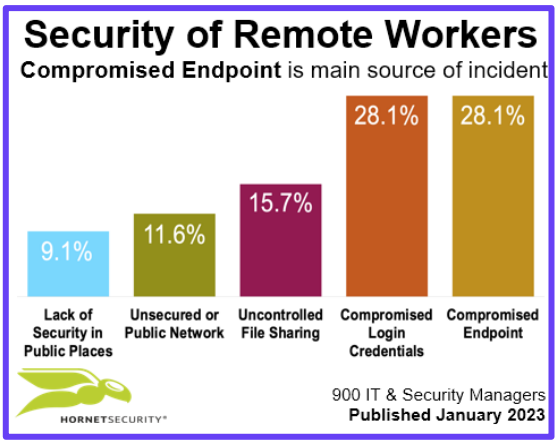












Cyber Insights: *Respond & Recover*

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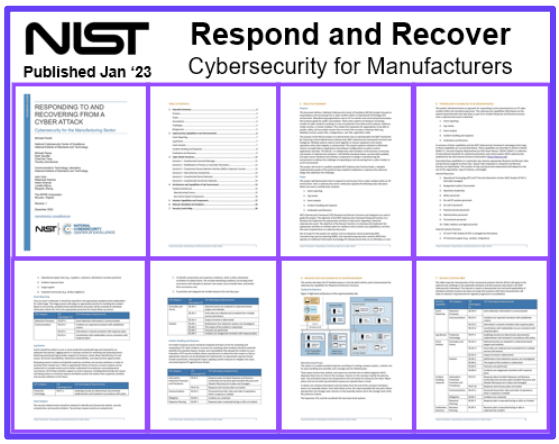

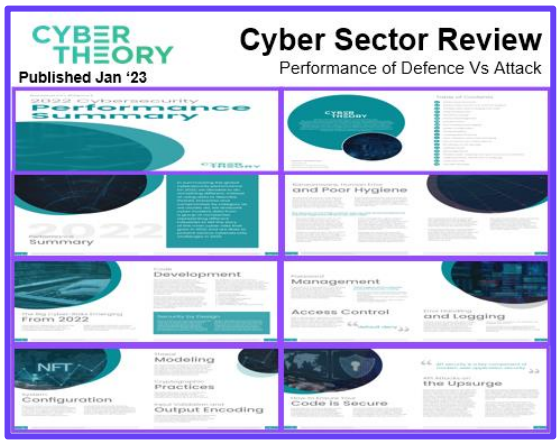

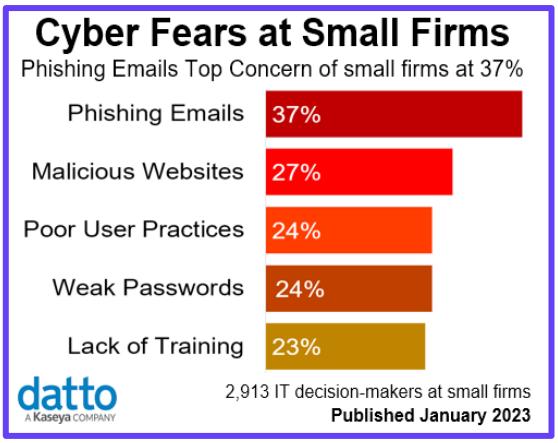

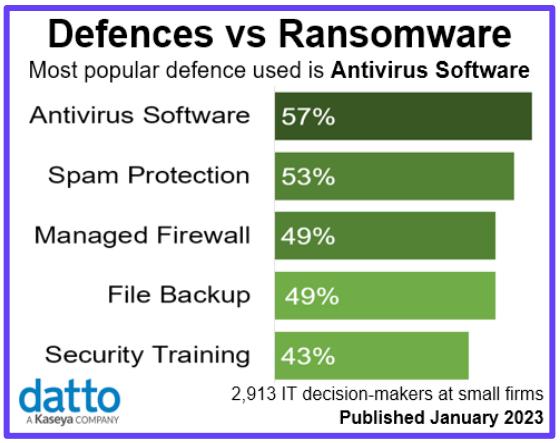

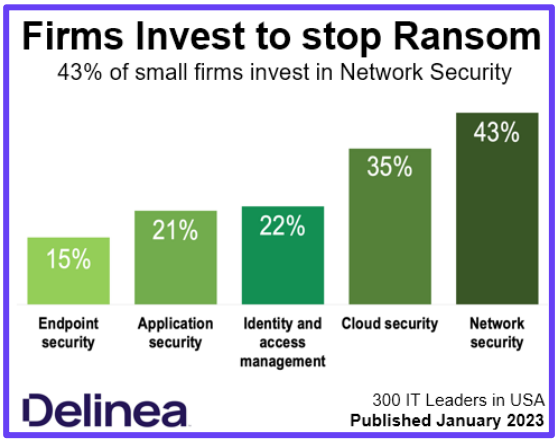

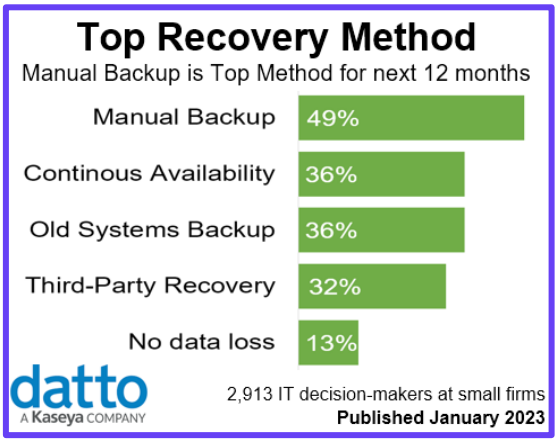

Cyber Insights: *Cyber Developments*

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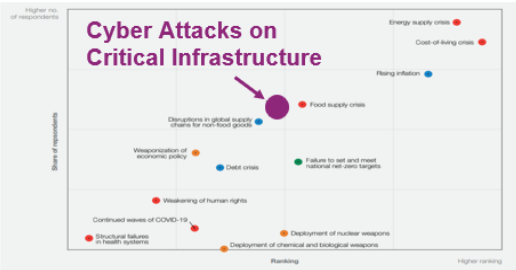
Davos Report on Global Risks

Experts say **Cyber Attacks on Infrastructure** key



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Insights from over 1,200 experts
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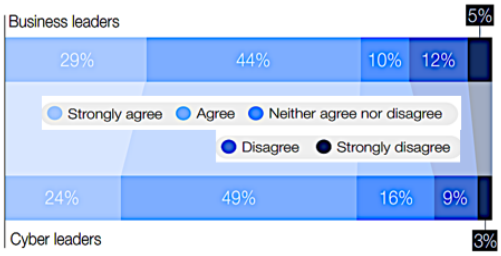
CEOs want Cyber Regulation

29% of Business Leaders say Regs help Resilience



WORLD ECONOMIC FORUM

Survey of 117 firms
Published January 2023

CEOs vs CISOs on Cyber

Business Leaders say Awareness > Cloud Security

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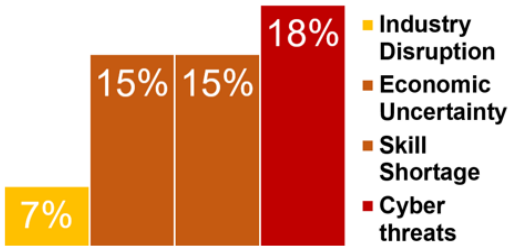
Survey of 117 firms
Published January 2023

Data Protection Trends

Cyber threats listed as most challenging for 2023



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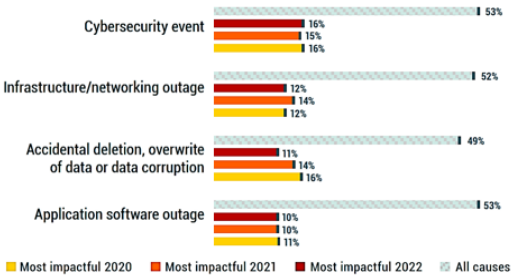
Data Protection Trends

Cyberattacks maintain as most impactful outage



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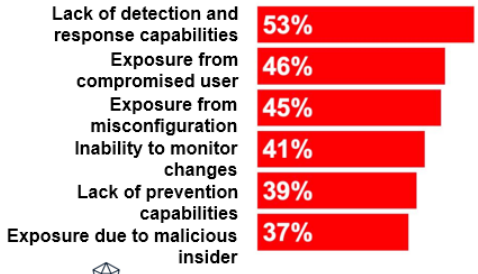
Cloud Environment Security

Top Concerns on Data stored in Cloud Environment



CyberRisk ALLIANCE

Survey of 300 Security Practitioners
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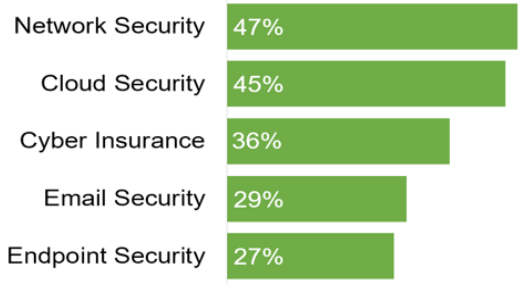
Top IT Security Areas

Cloud Security are small firms target to invest at 45%



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2,913 IT decision-makers at small firms
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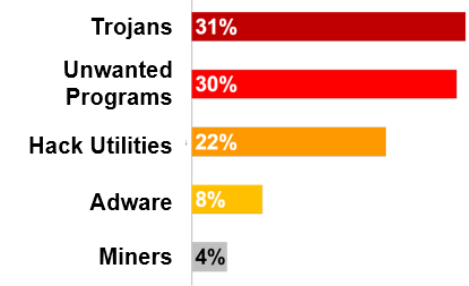
Top General Detections

Trojan Viruses affected Home Users the most



ReasonLabs

Analysis of 2022 Global Data
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The Best Cyber Insights of 2023

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Cyber AI Predictions for 2023

Top 5 Causes for Cyber Concern from AI

#1 = **Transform** security, risk & fraud

#2 = **Innovate attacks** with generative AI

#3 = **Spear-phishing** personalised by AI

#4 = **Social engineer** with Deep Fakes

#5 = **Disinformation** with Chatbots

SC MEDIA

Predictions from Experts quoted by SC
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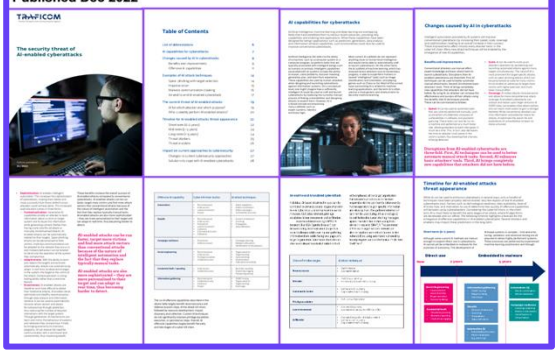
AI Cyber Attacks

TRAFICOM Liikenne- ja viestintävirasto

Cyber Must Adapt to New Threats

Published Dec 2022



Open AI generates InfoSec

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InfoSec Policies made by ChatGPT

Open AI in Cyber

CYFIRMA DECODING THREATS

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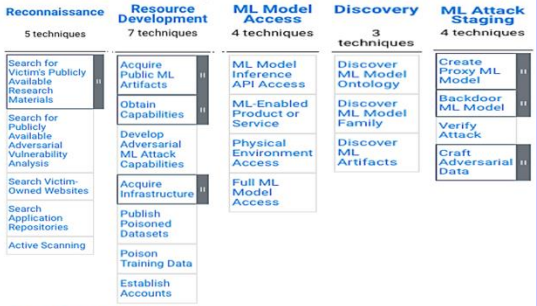
ChatGPT's AI Cyber Potential

AI & ML use in Cyber Attacks

How Artificial Intelligence & Machine Learning helps



MITRE

Based on observations & security groups
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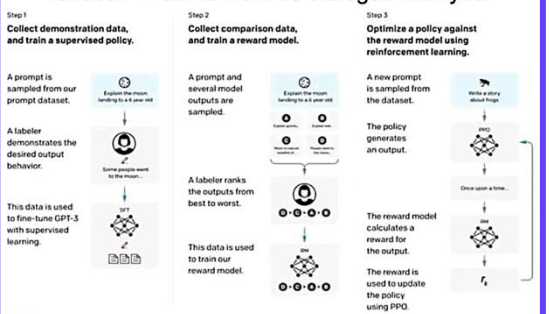
How Open AI is Trained

ChatGPT learns from its dialogue with you



kenovy OpenAI

Published December 2022

Cyber Predictions for 2023

Top 5 Causes for Cyber Concern in 2023

#1 = **Shadow APIs** lead to breaches

#2 = **MFA** becomes ineffective

#3 = **Cloud Apps** unsecured

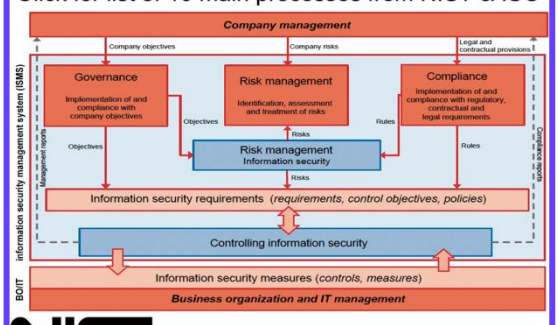
#4 = **Open Source Software** targeted

#5 = **Ransoms** rise up political agendas

Predictions from Industry Experts at F5
Published December 2022

Managing Cyber Security

Click for list of 10 main processes from NIST & ISO



NIST

Published January 2023

Cyber Insights: *Cyber & Finance Dept*

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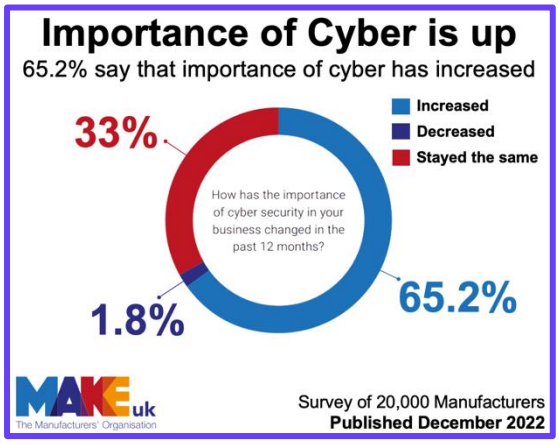

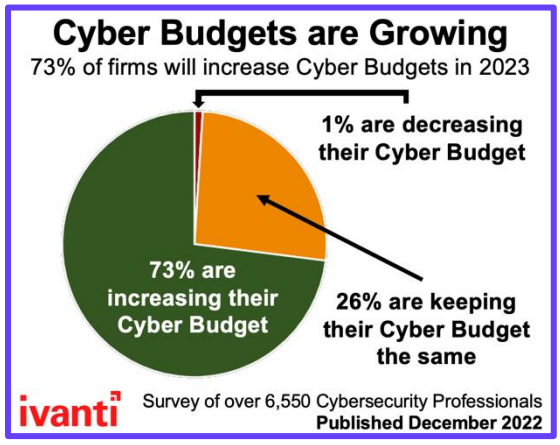

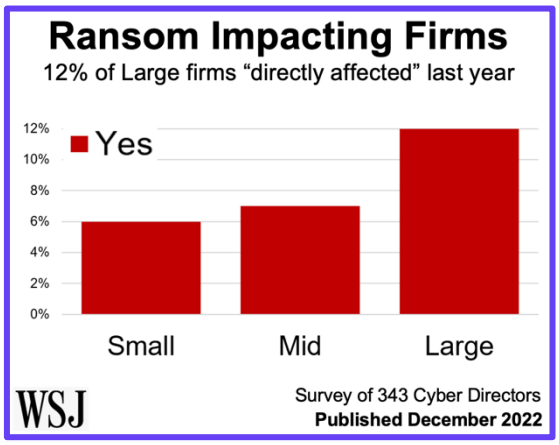

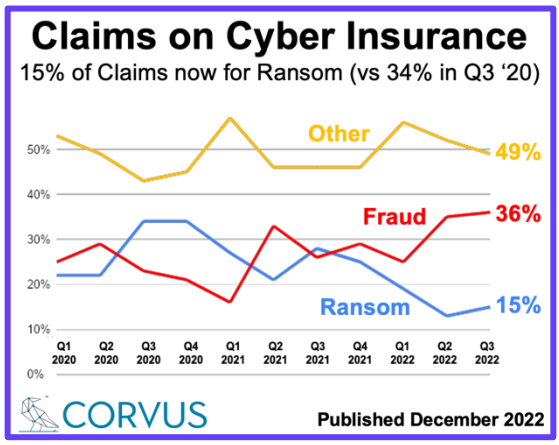

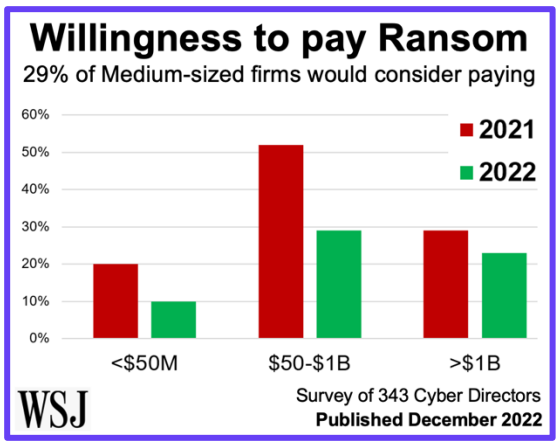

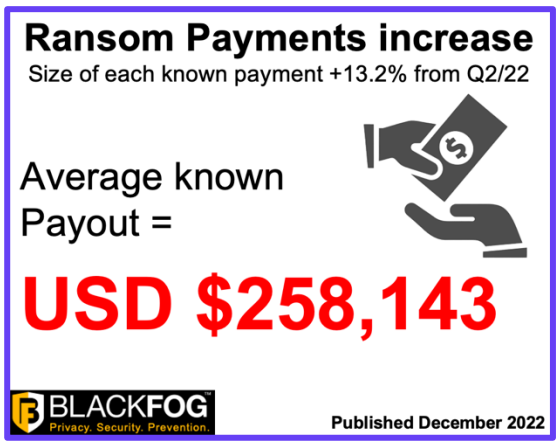

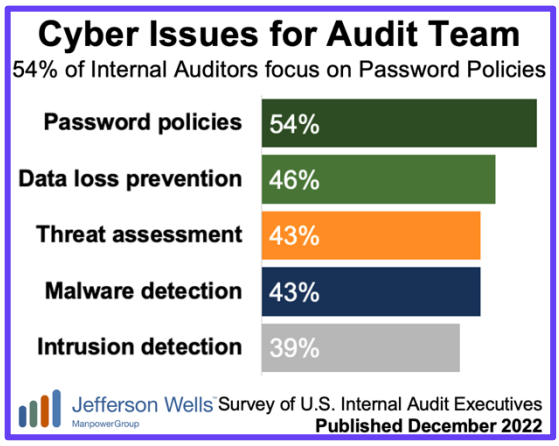

Cyber Insights: *Cyber Humans*

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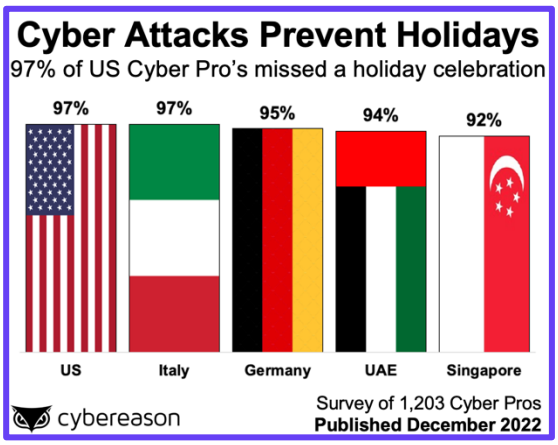

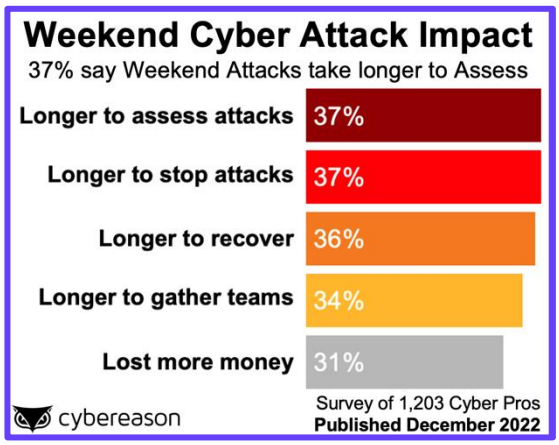

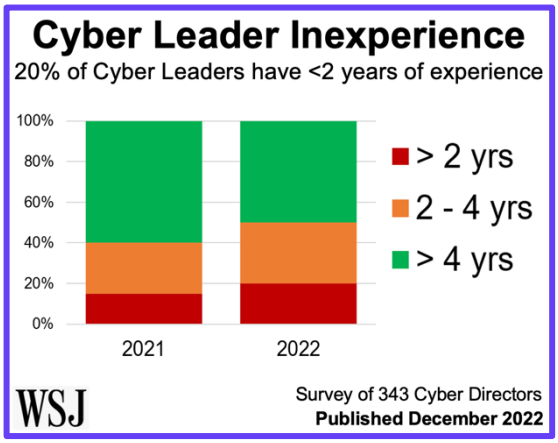

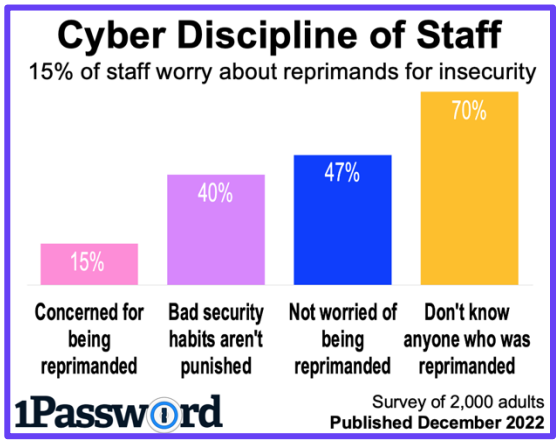

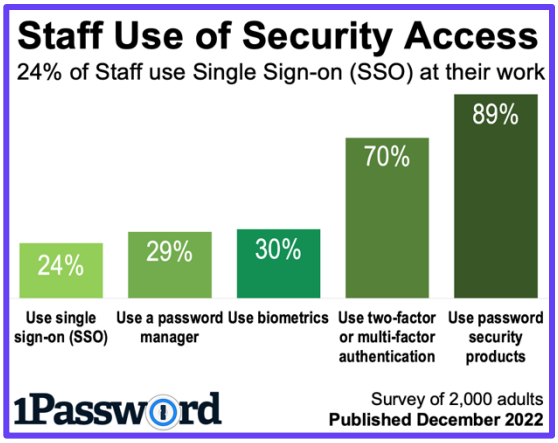

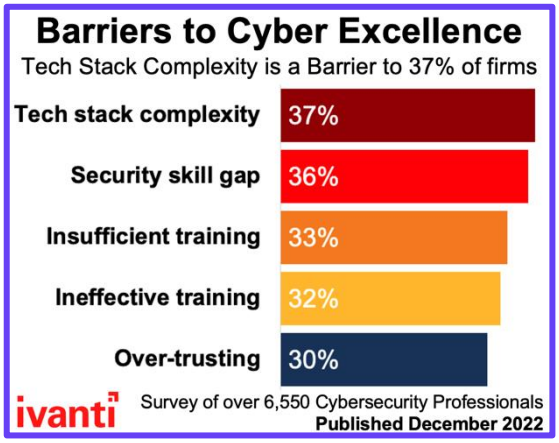

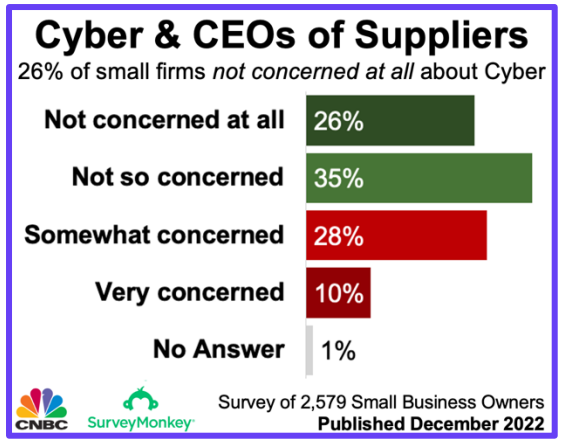

Cyber Insights: *Cyber Trends*

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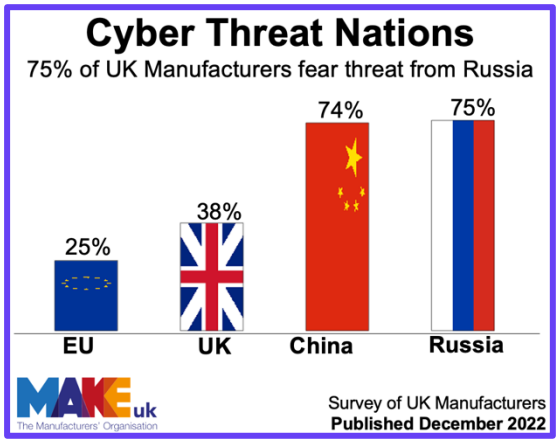

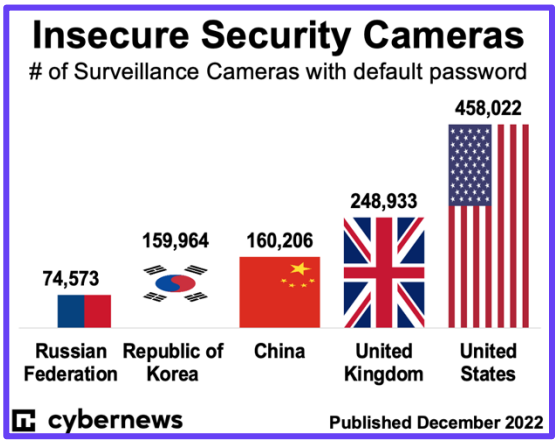

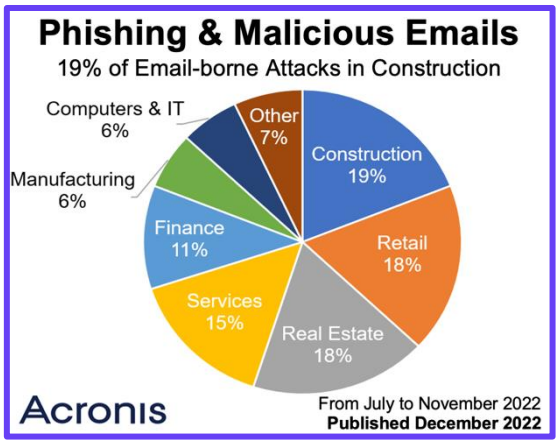

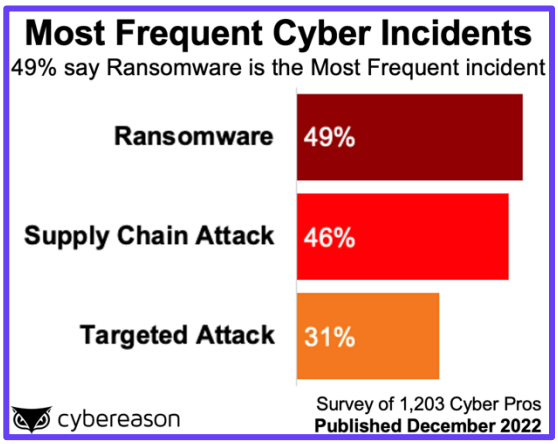

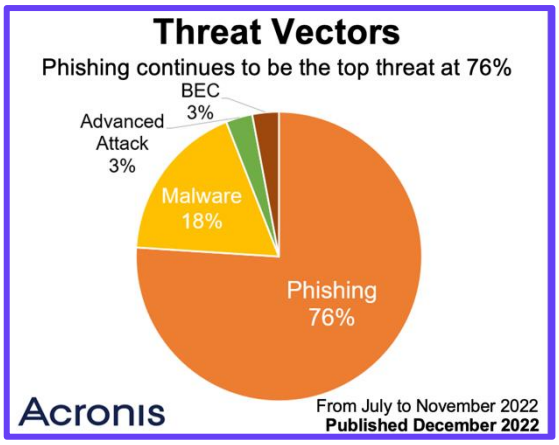

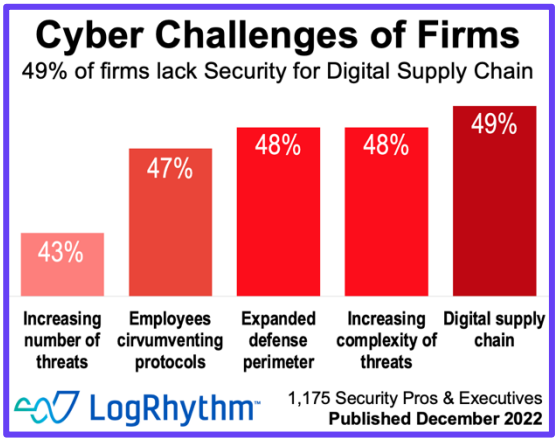

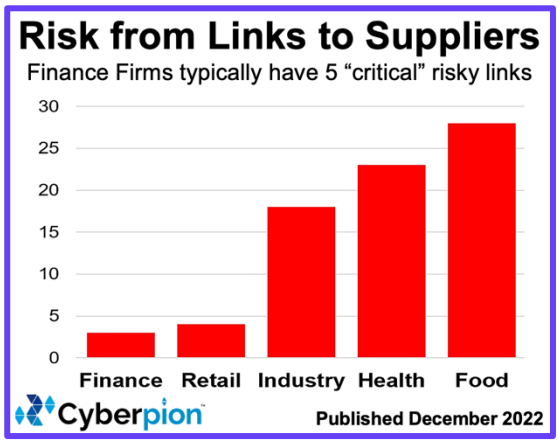

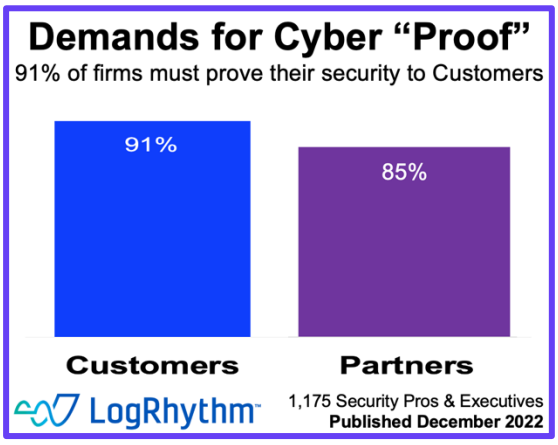

Cyber Insights: *Ransomware*

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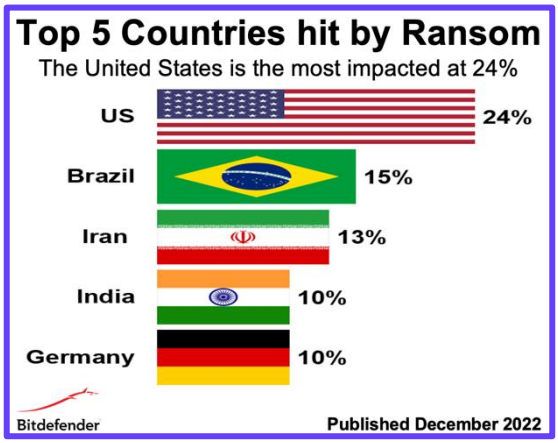

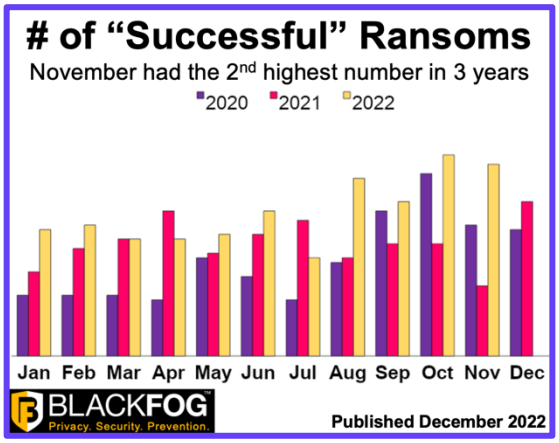

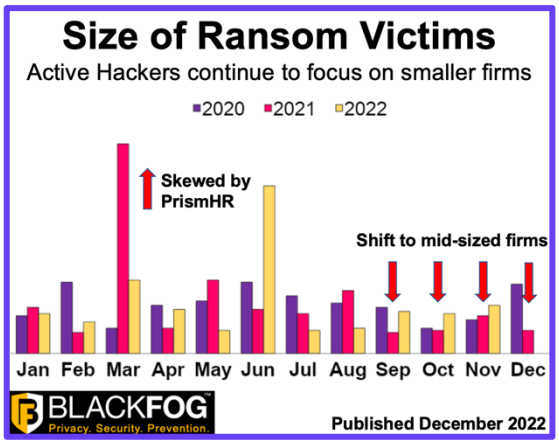

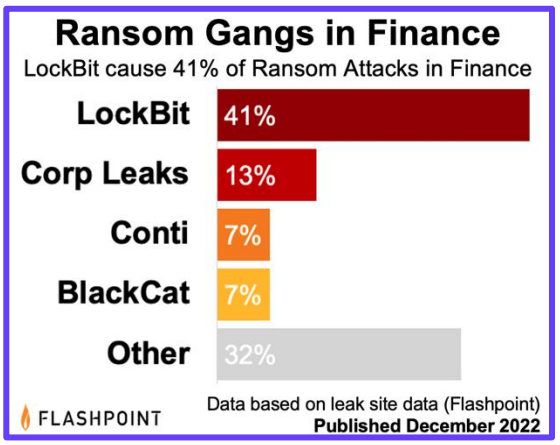

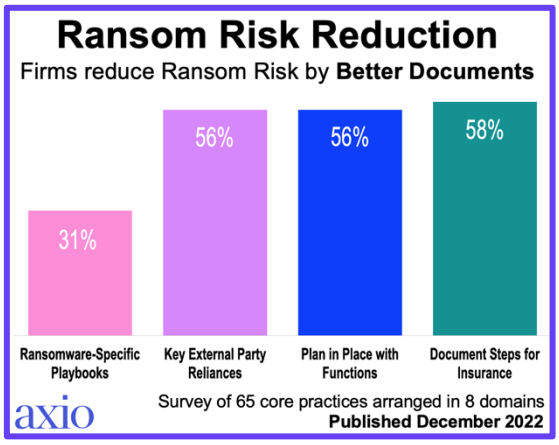

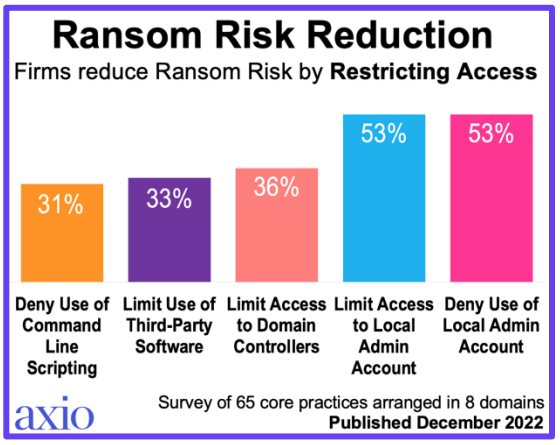

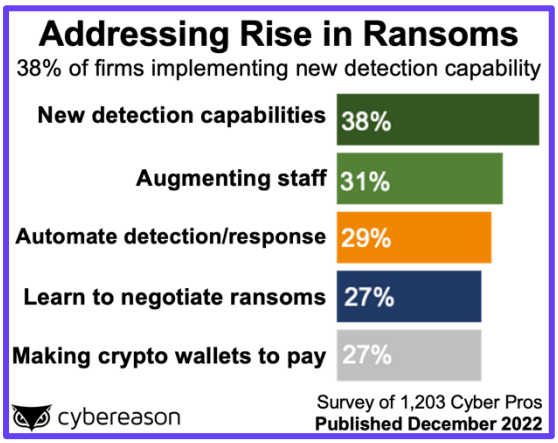

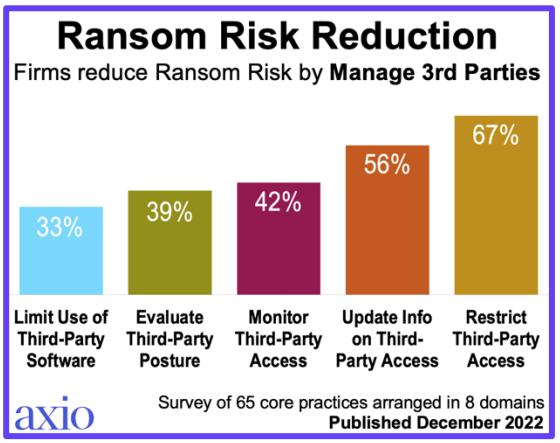

Cyber Insights: *Cyber Trends*

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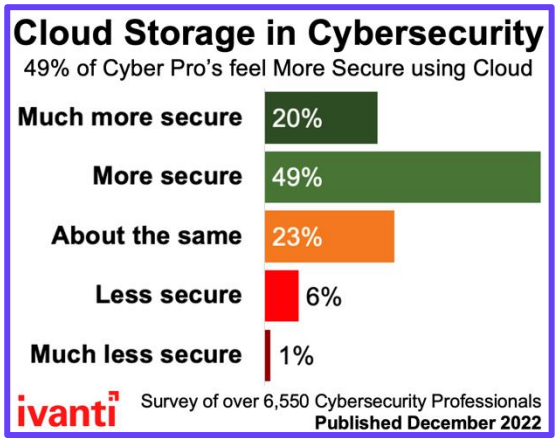

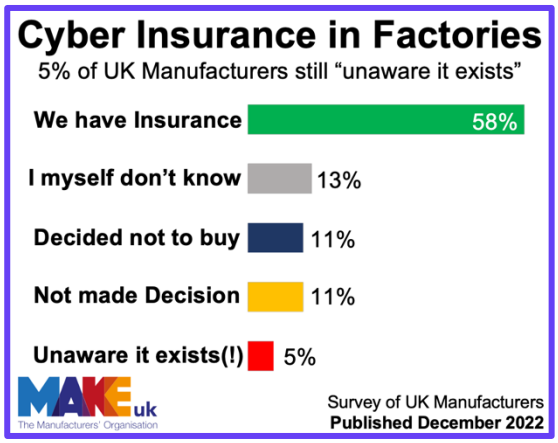

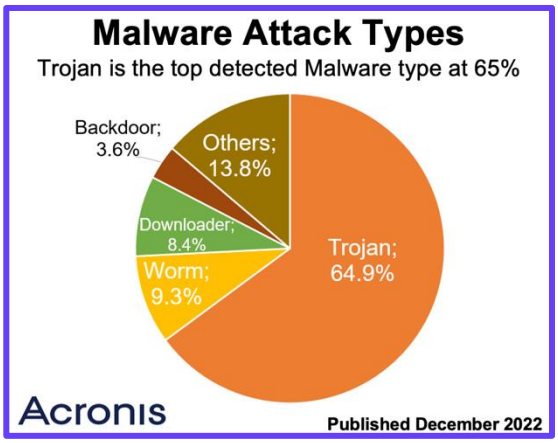

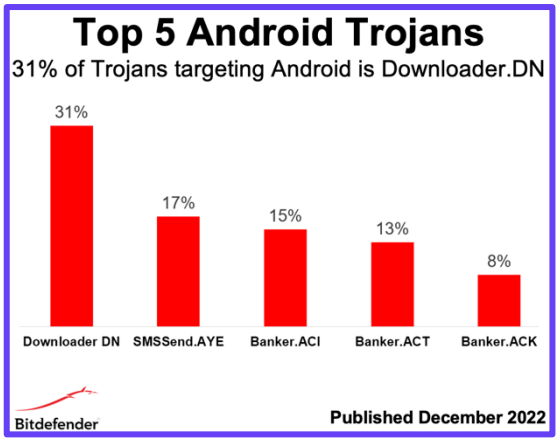

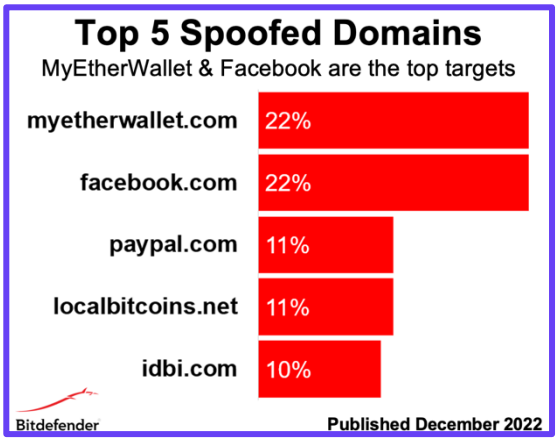

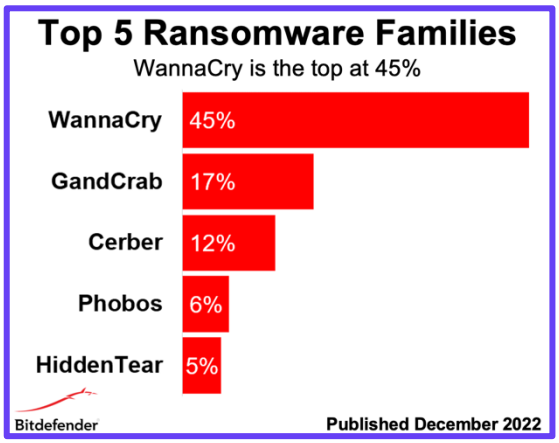

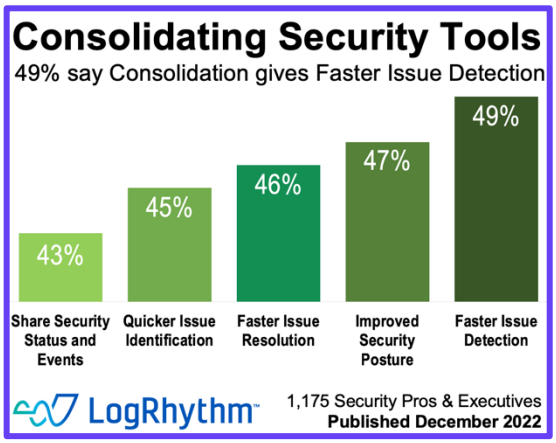

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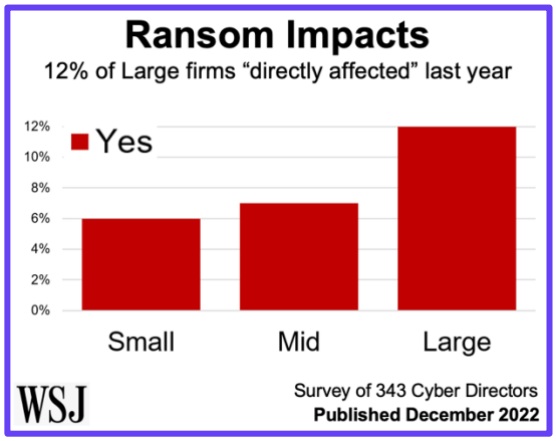

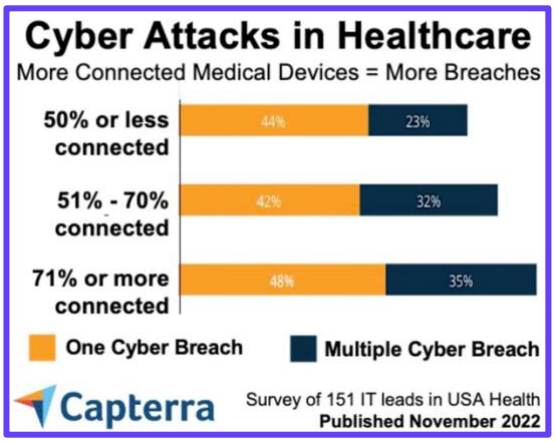

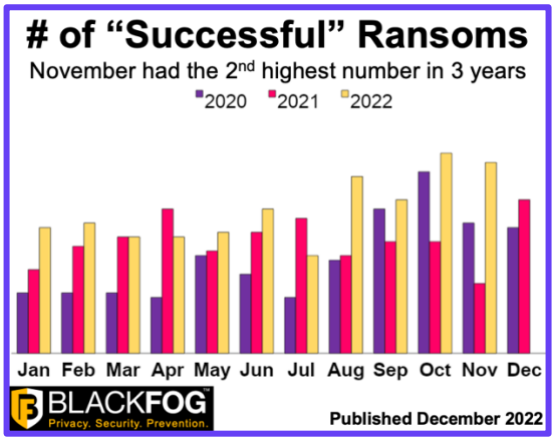

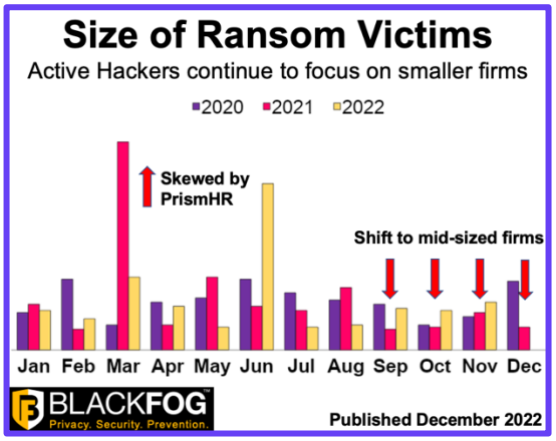

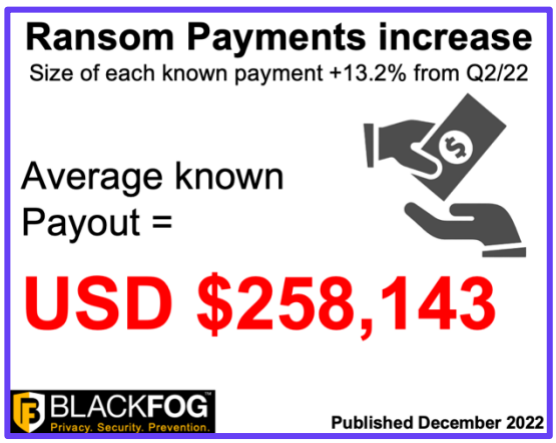

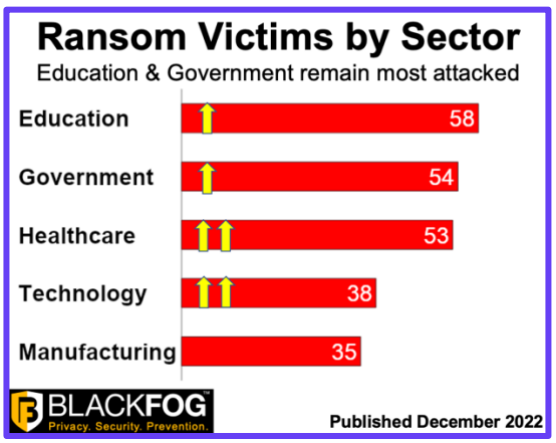

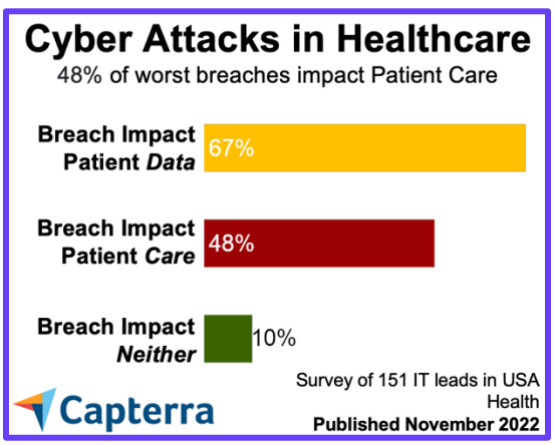

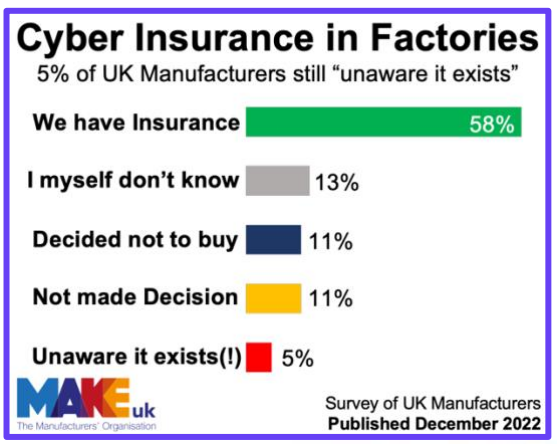

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INTERPOL's Crime Forecast

Ransomware is "crime most likely to increase"

#1 = **Ransomware**

#2 = Phishing & Online Scams

#3 = Online Child Sexual Abuse

#4 = Business Email Compromise

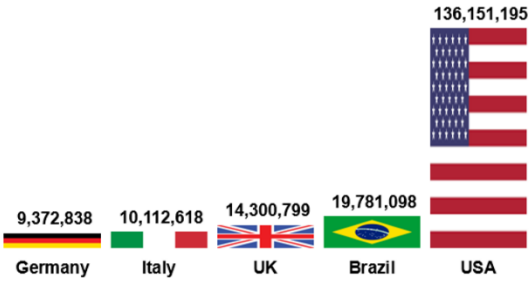
#5 = Computer Intrusion

INTERPOL

Global Survey of Police Forces
Published November 2022

Ransom "*Attacks*" Volume

136 million Ransom **attempts** on US Firms this year



SONICWALL

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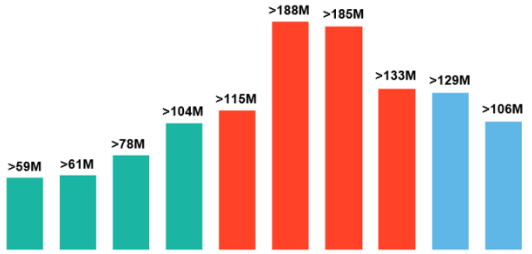
Ransom "*Attacks*" Volume

Good News as ransom attack volumes are declining



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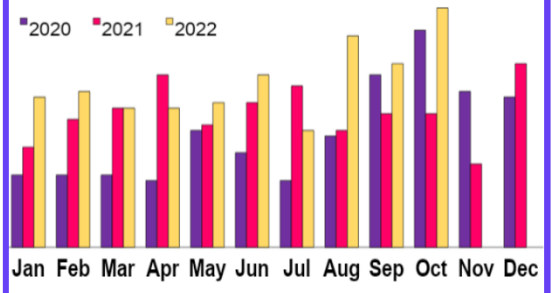
Ransom "*Success*" Volume

Last month had most Ransom "successes" ever



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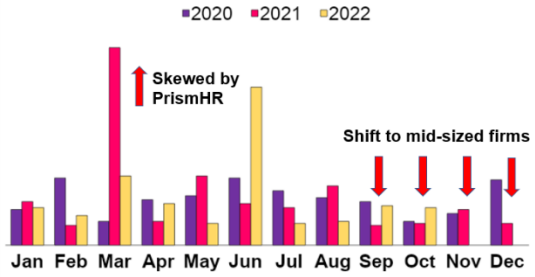
Size of Ransom Victim Firms

Active Hackers continue to focus on smaller firms



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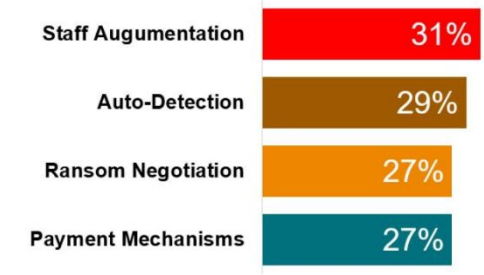
Ransom Redress

27% are learning to negotiate with Ransom Actors



cybereason

Survey of 700 Cybersecurity Professionals
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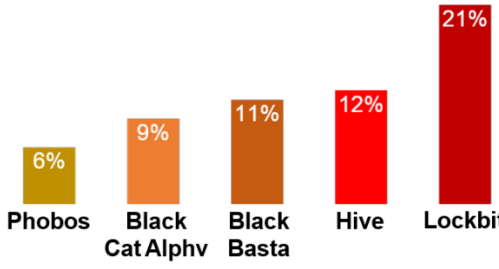
Top Ransomware Gangs

Lockbit is responsible for most "successful" attacks



KROLL

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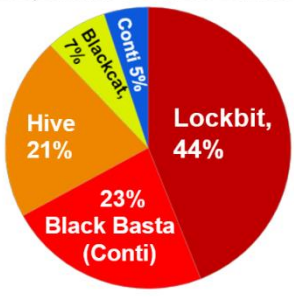
Top 5 Ransomware Gangs

Lockbit is responsible for most "successful" attacks



deepinstinct

Analysis of Deep Instinct Data
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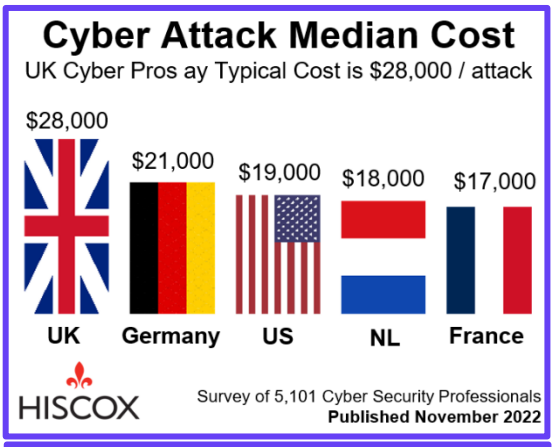

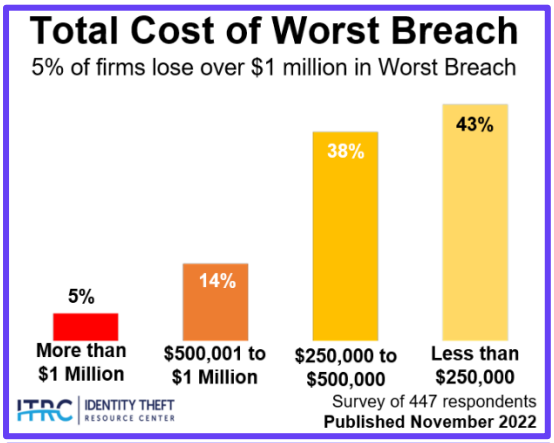

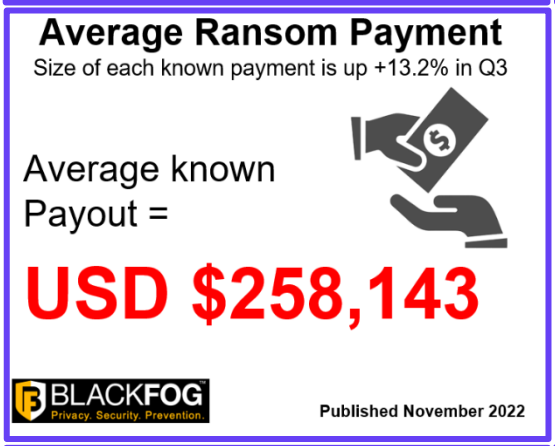

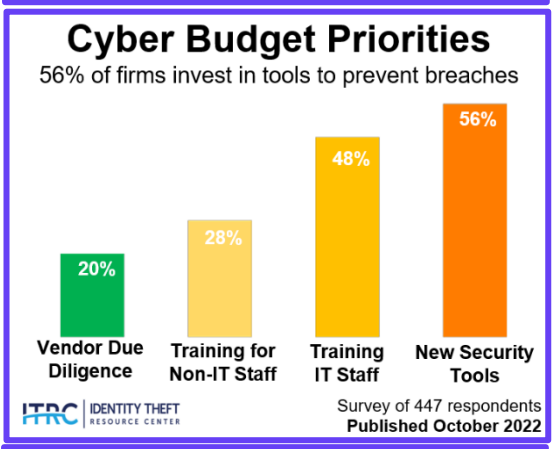

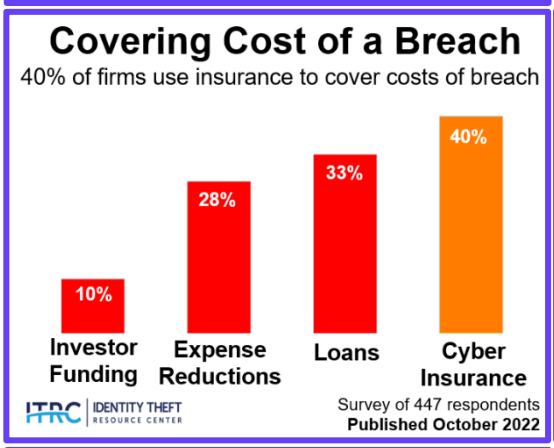

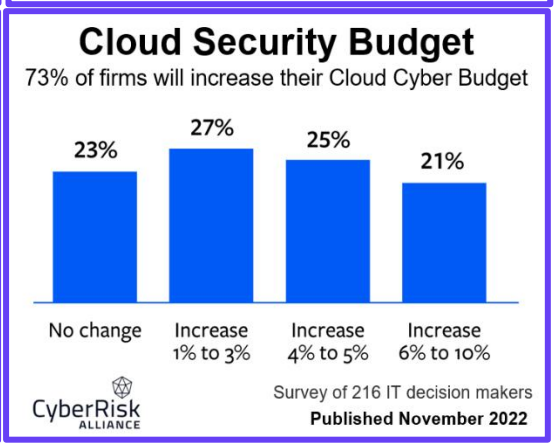

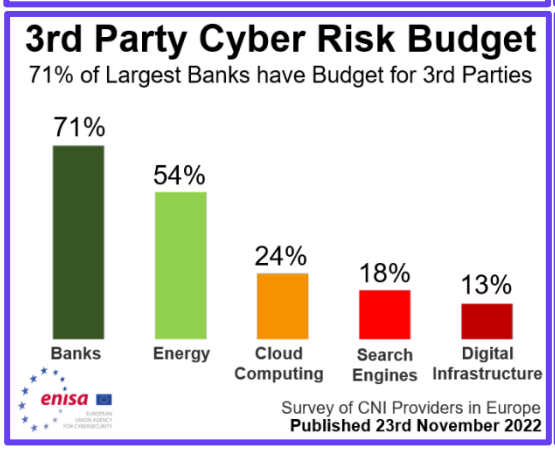

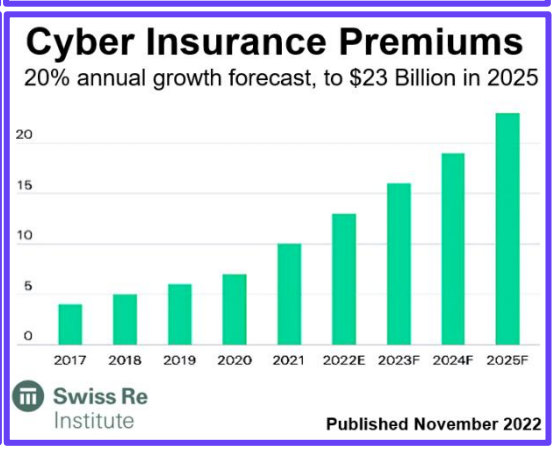

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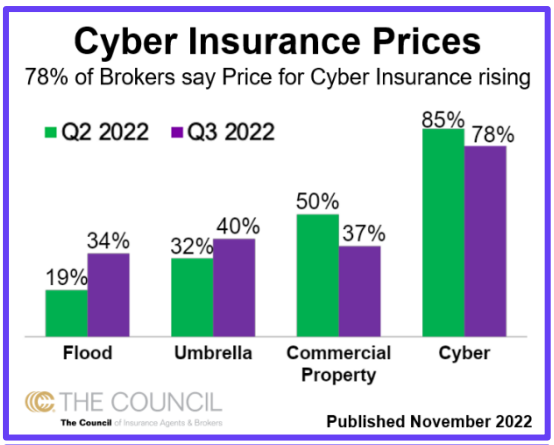

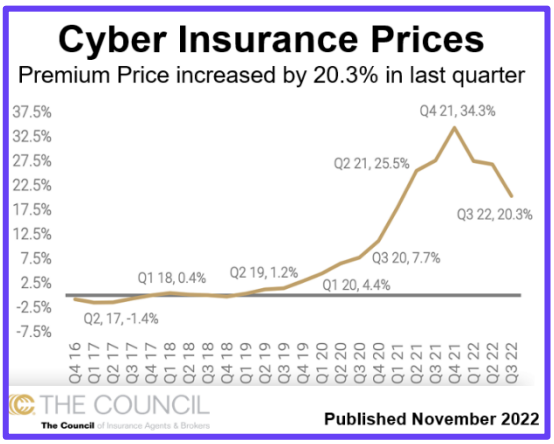

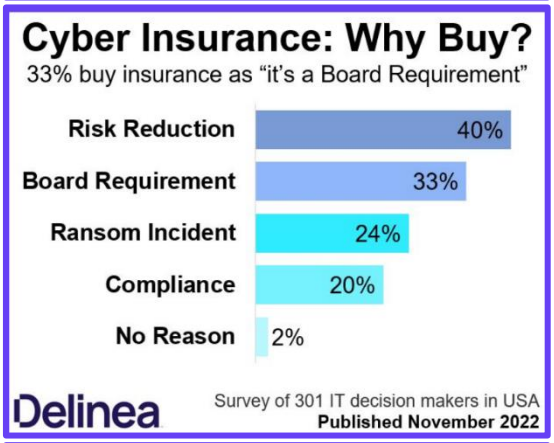

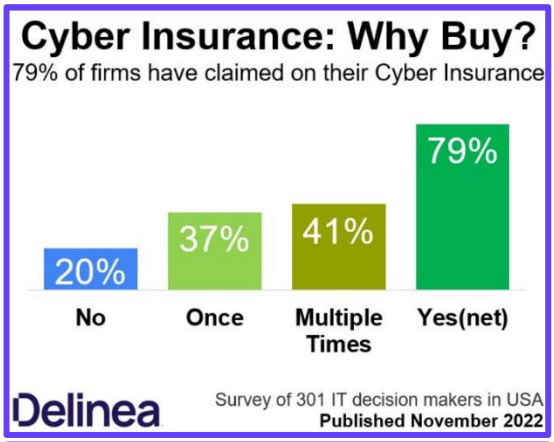

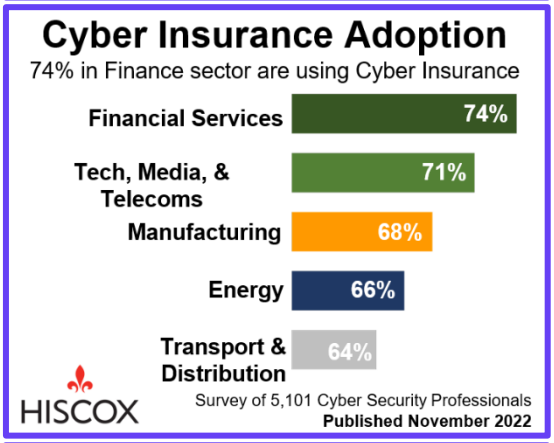

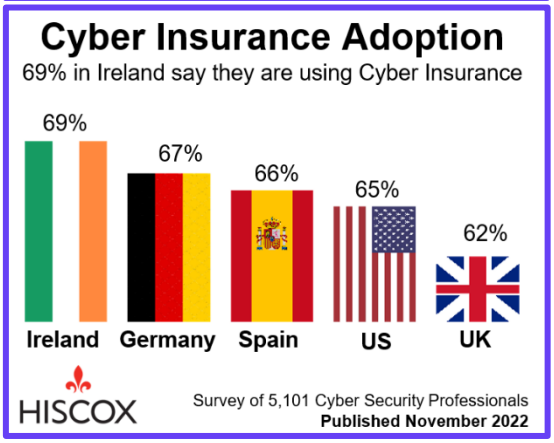

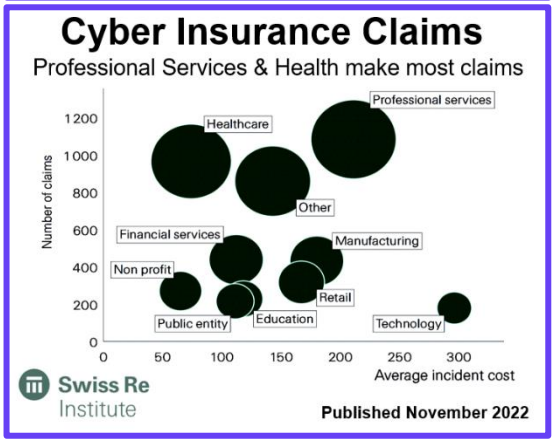

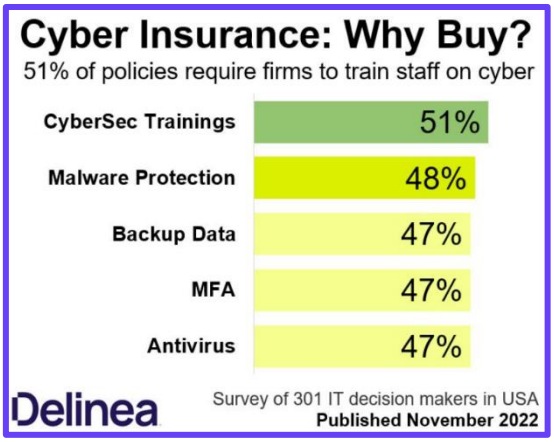

Cyber Insights: *By Country & By Sector*

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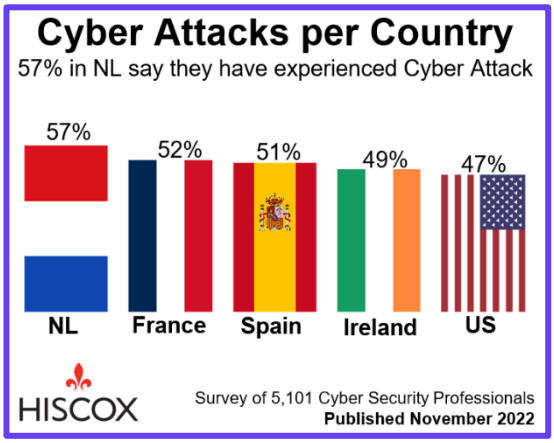

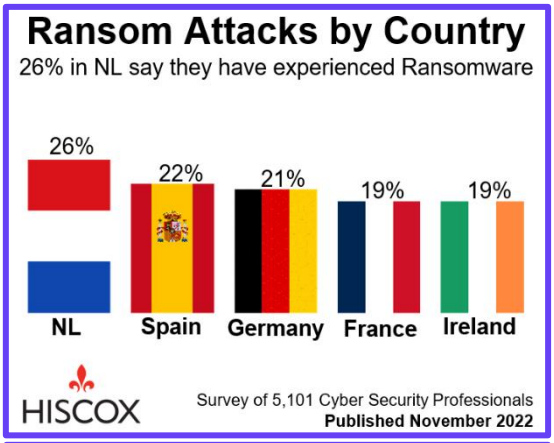

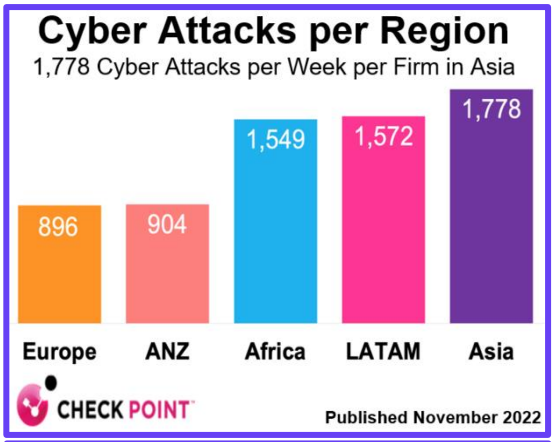

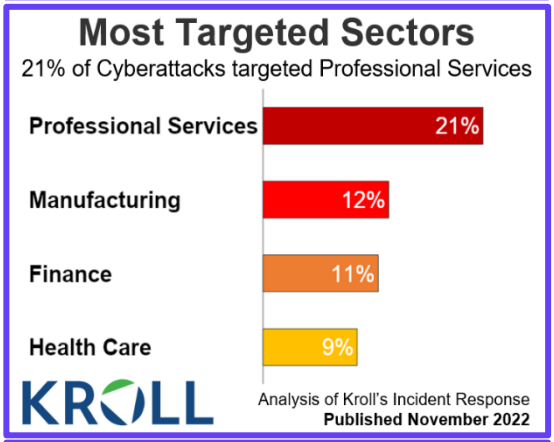

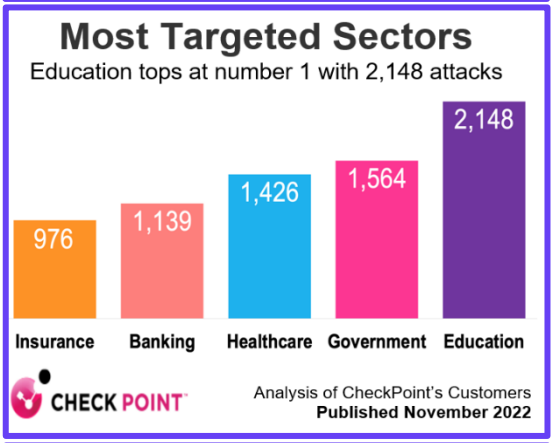

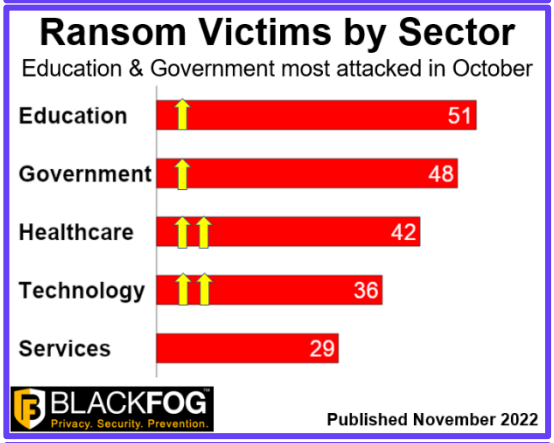

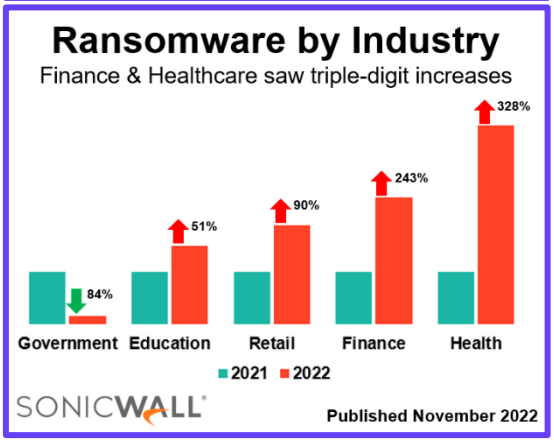

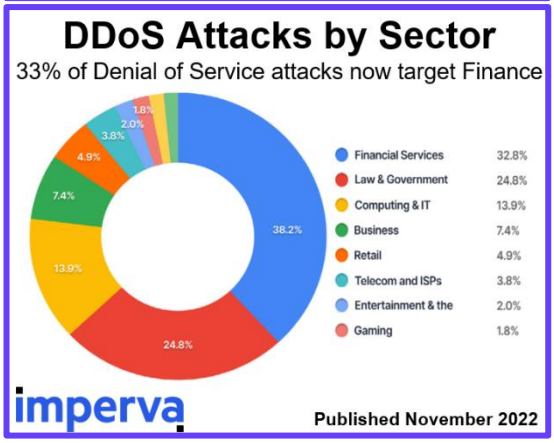

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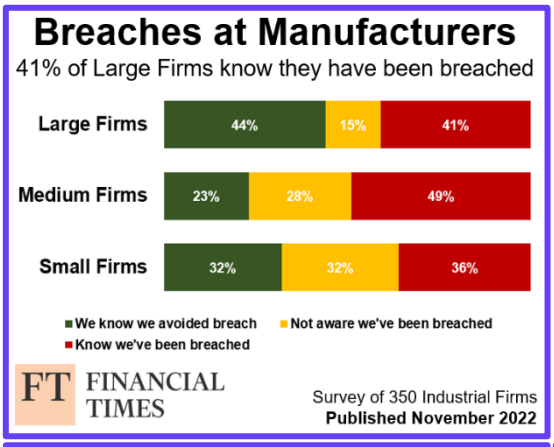

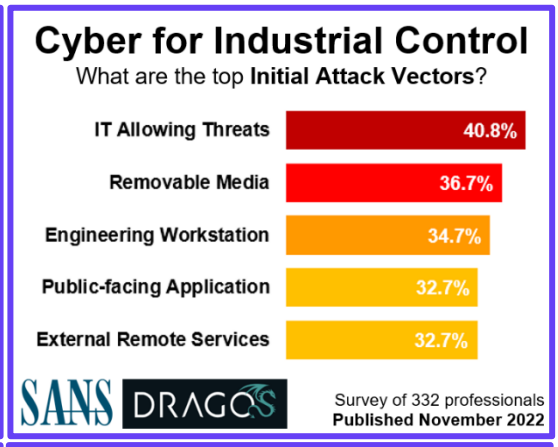

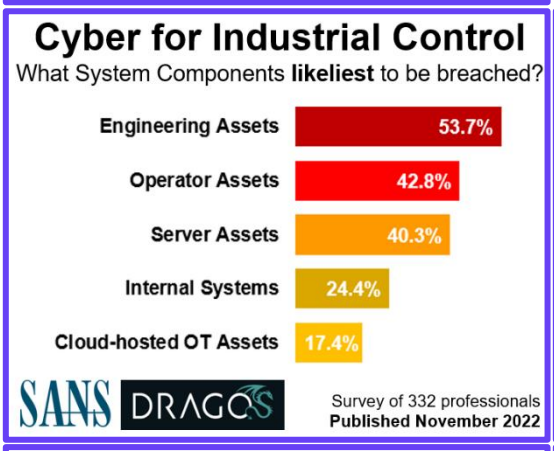

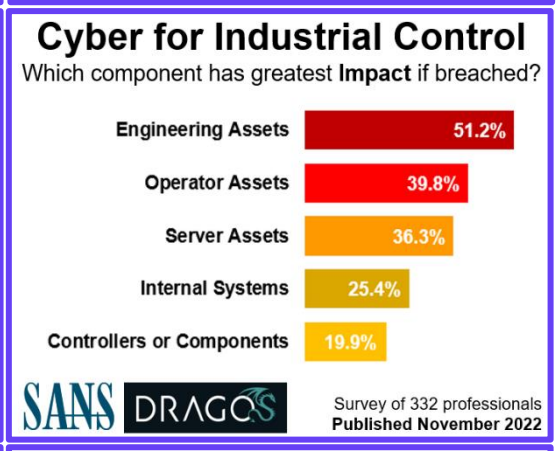

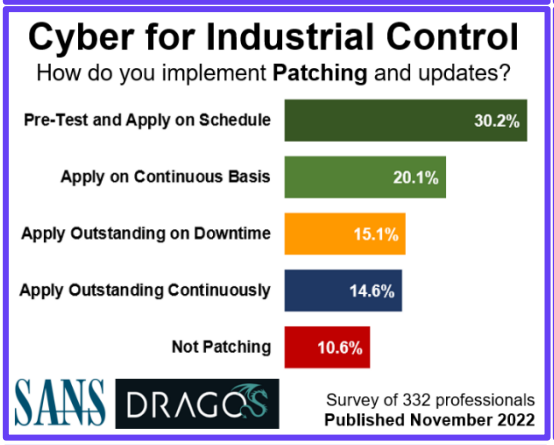

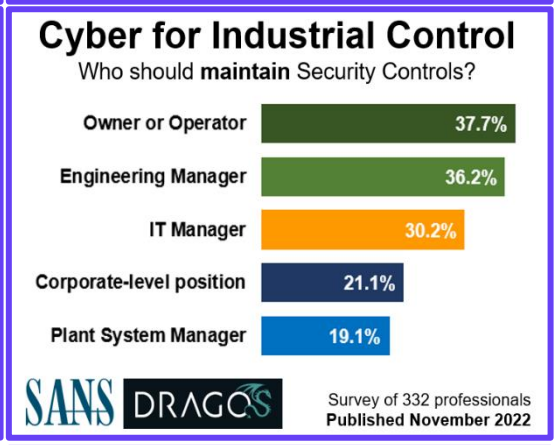

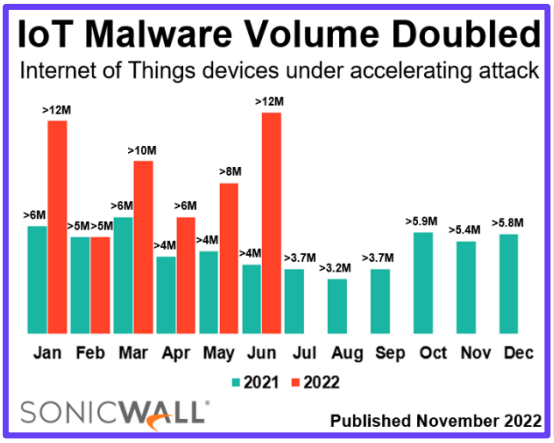

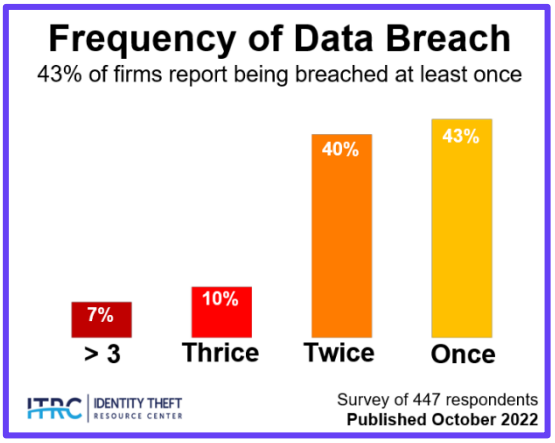

Cyber Insights: *Cyber Risks & Vectors*

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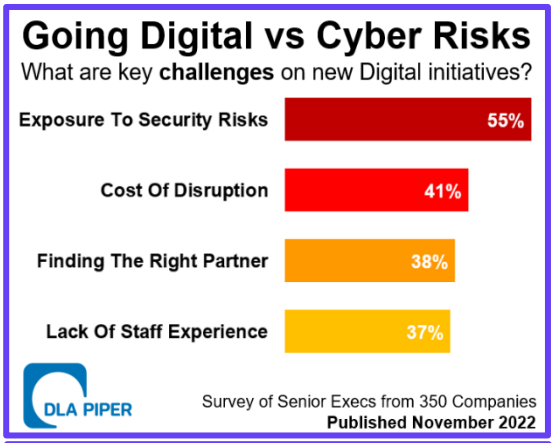

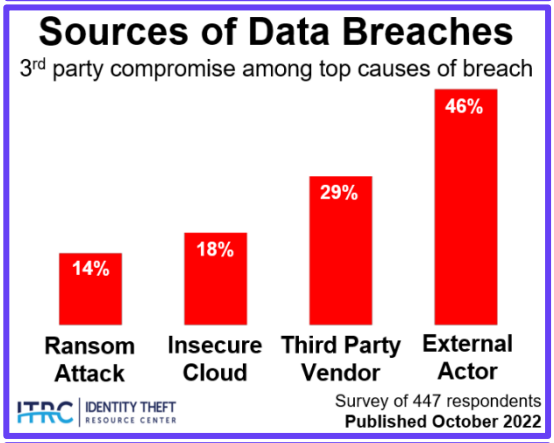

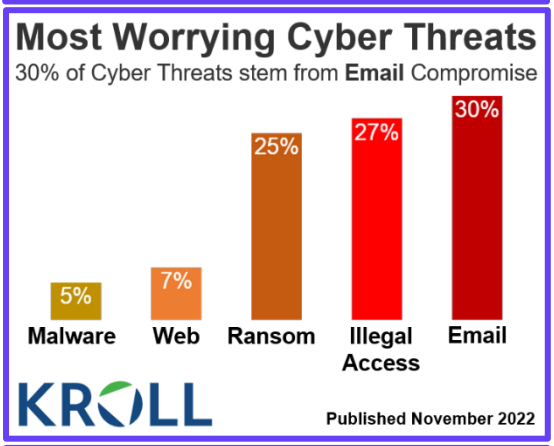

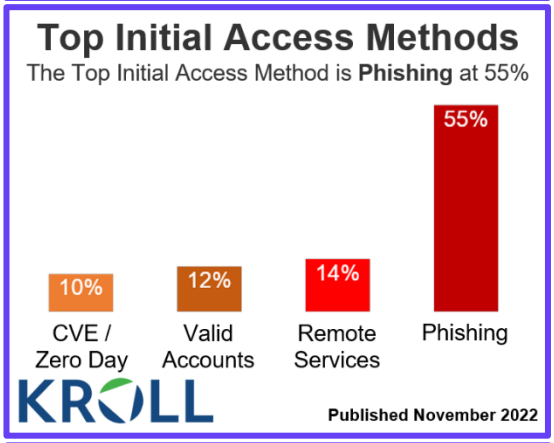

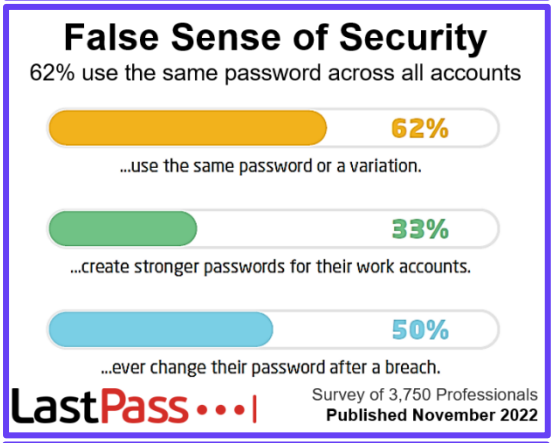

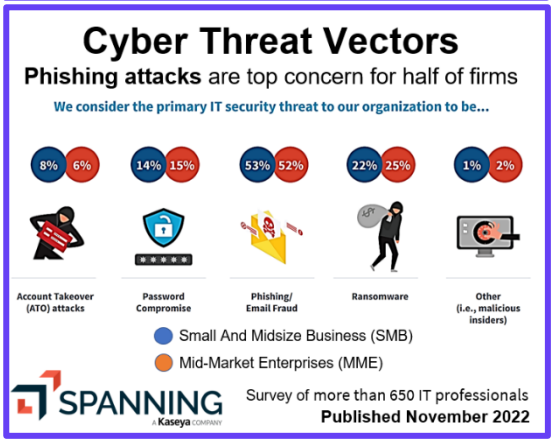

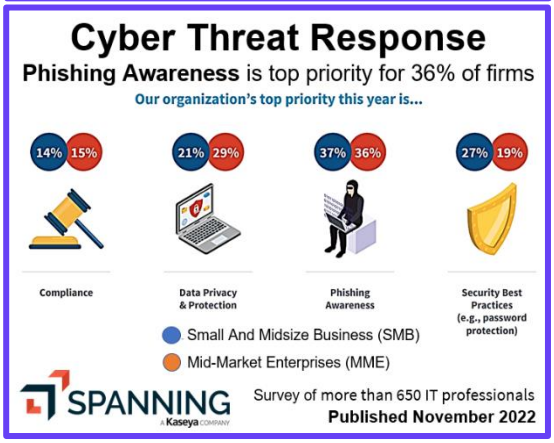

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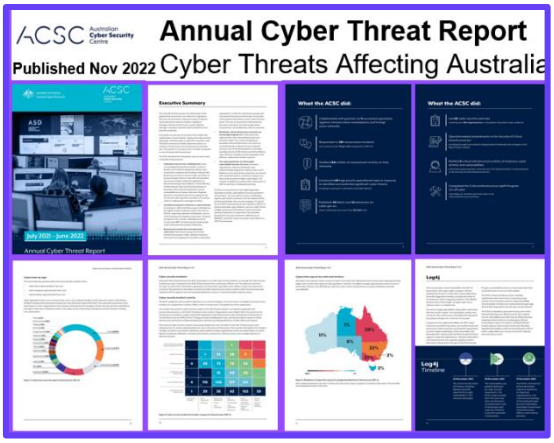

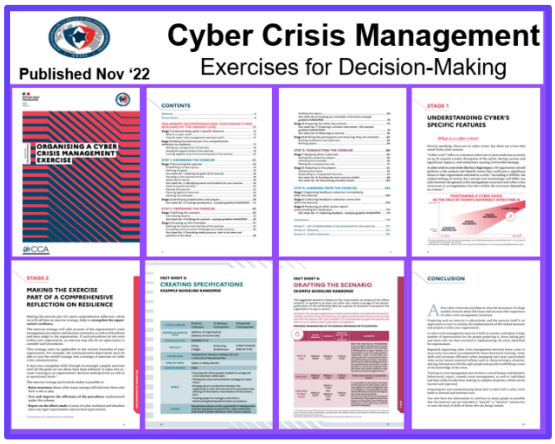

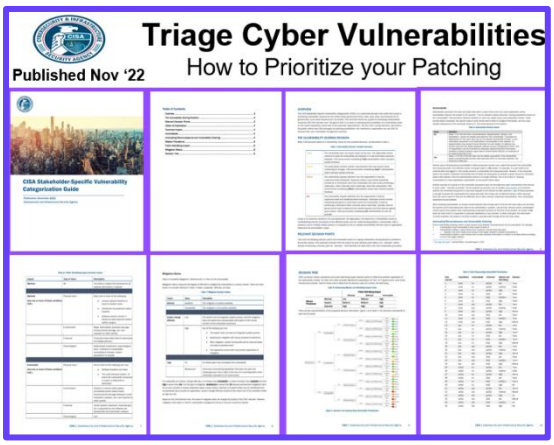

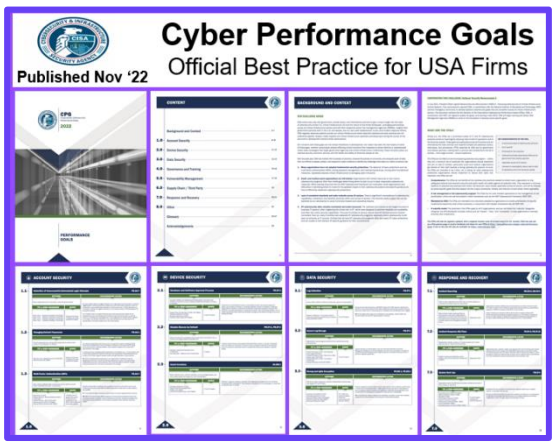

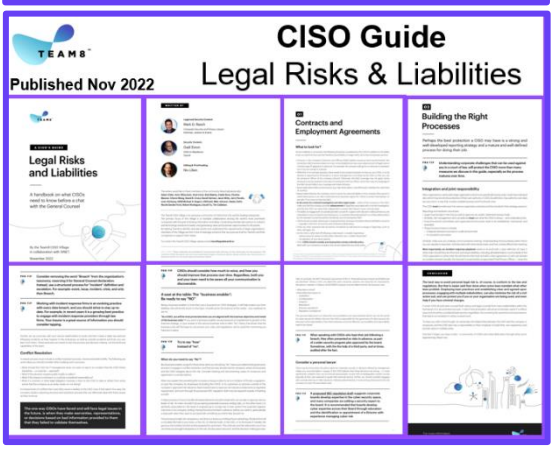

Cyber Insights: *Retailers & Small Firms*

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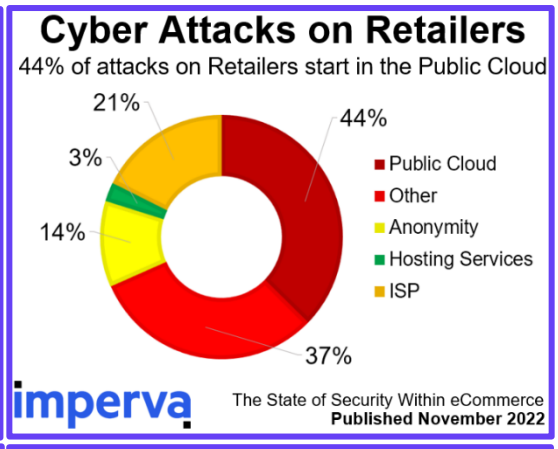

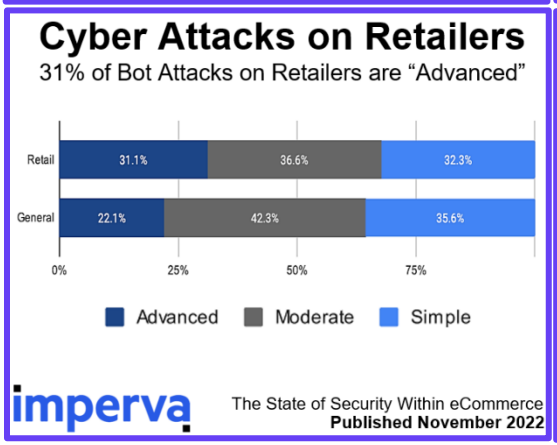

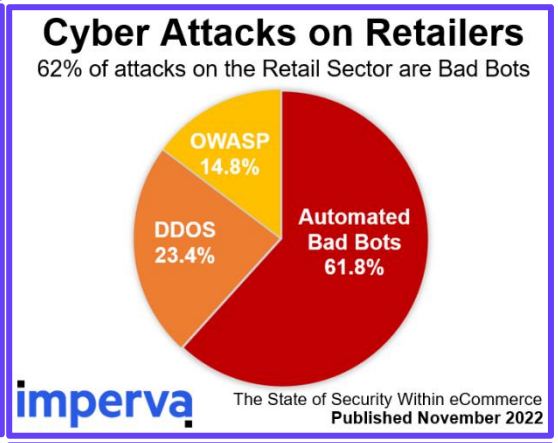

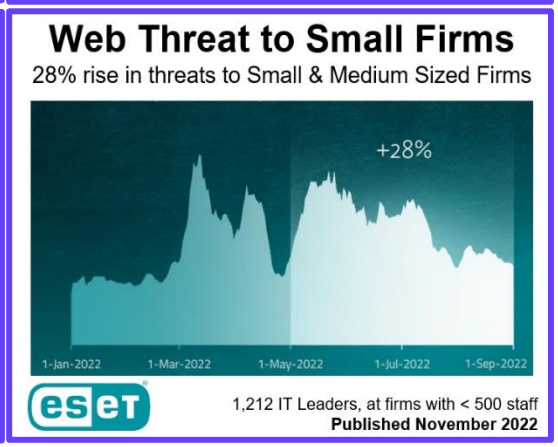

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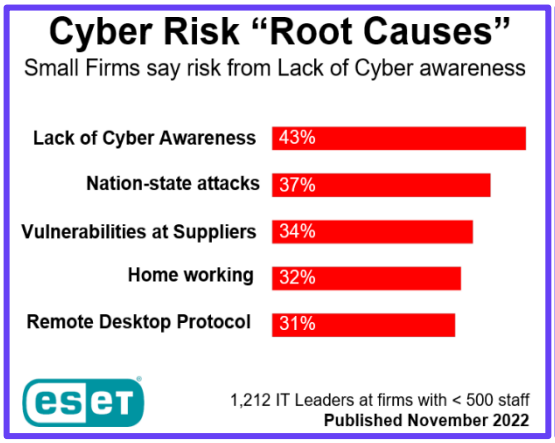

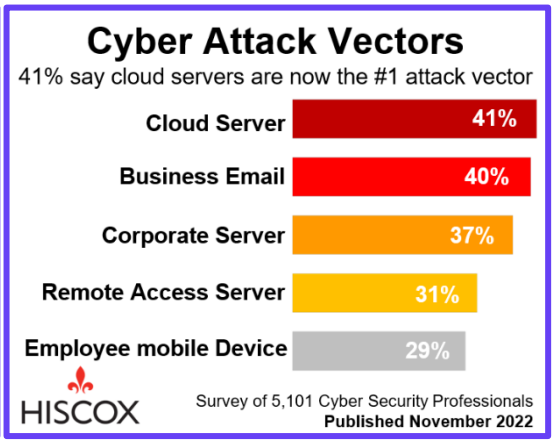

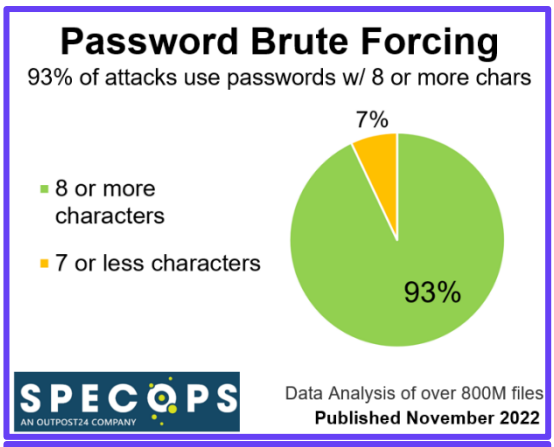

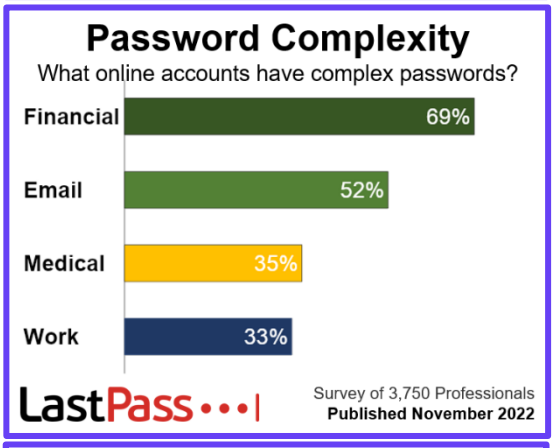

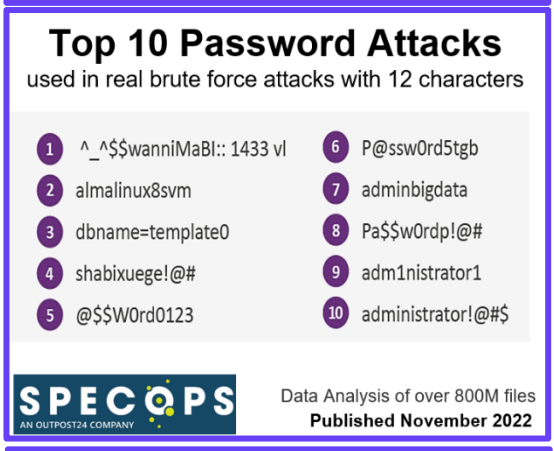

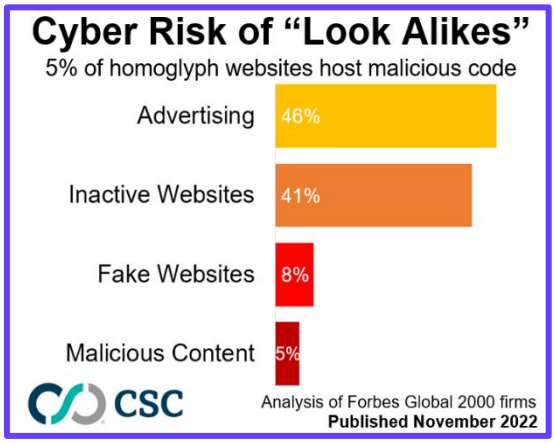

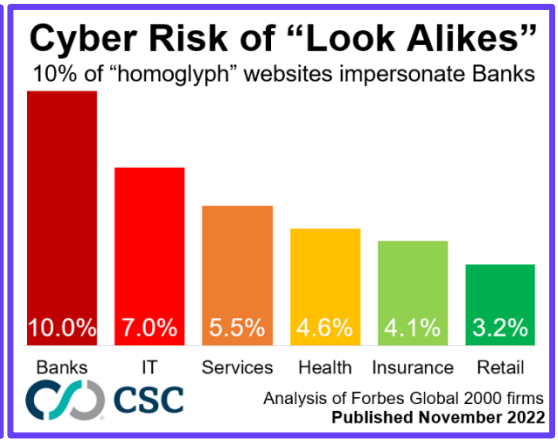

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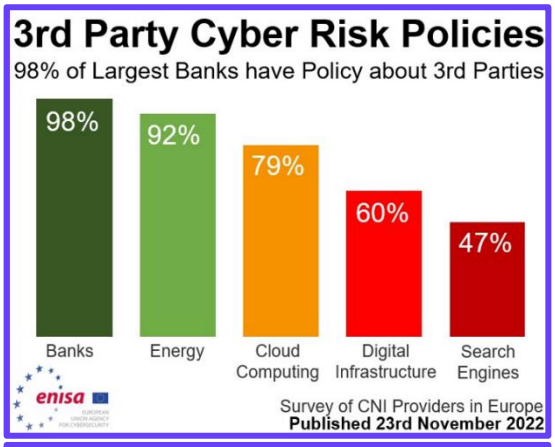

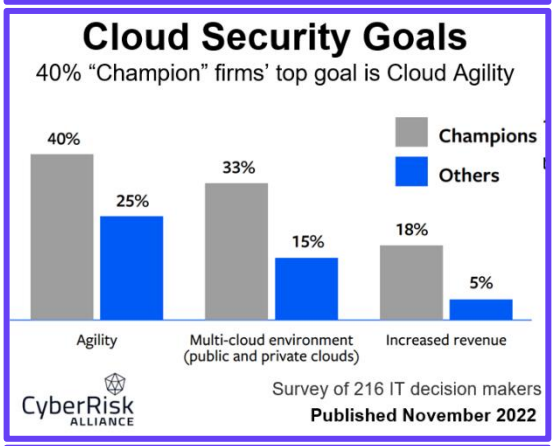

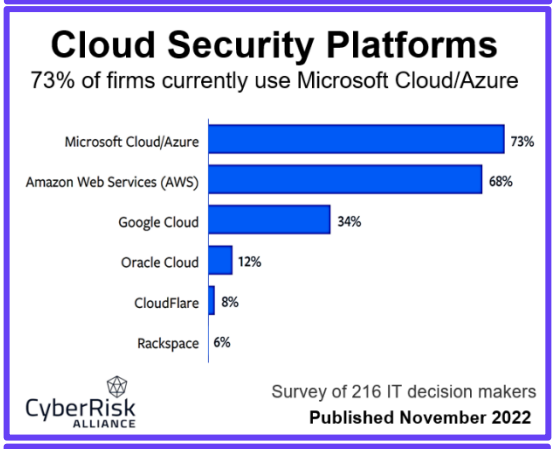

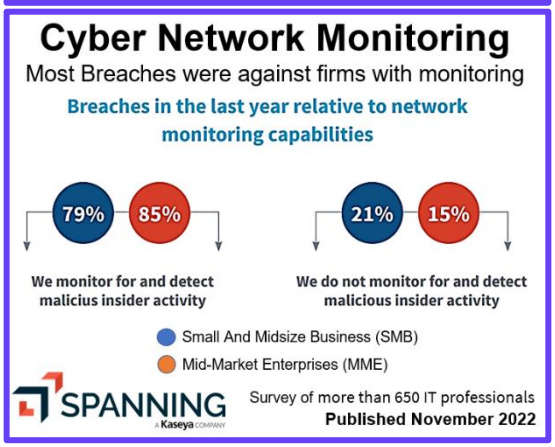

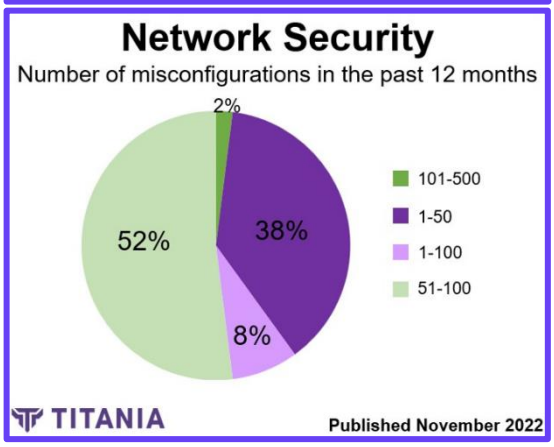

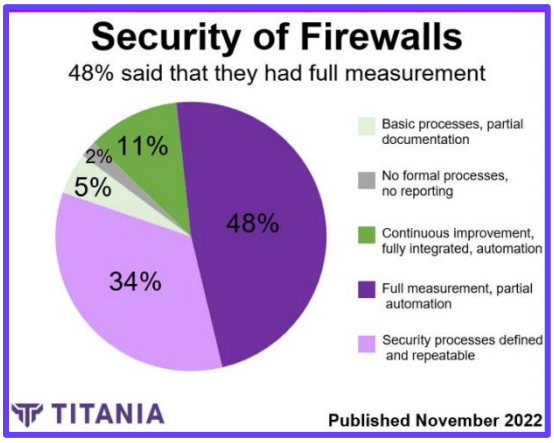

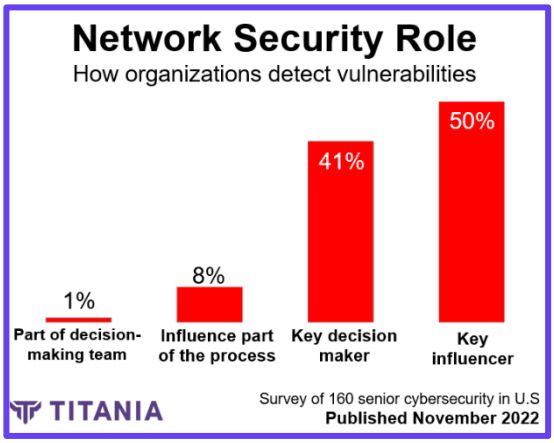

Cyber Insights: *Cyber Security Priortisation*

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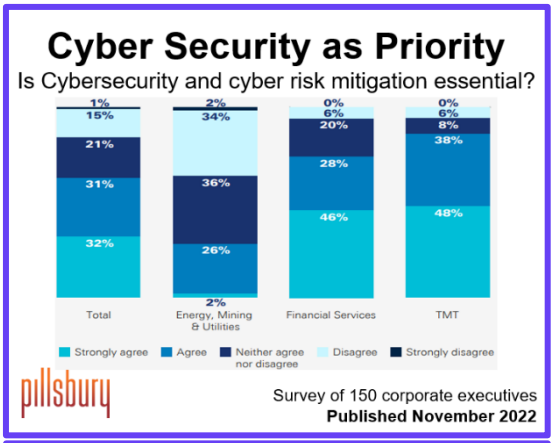

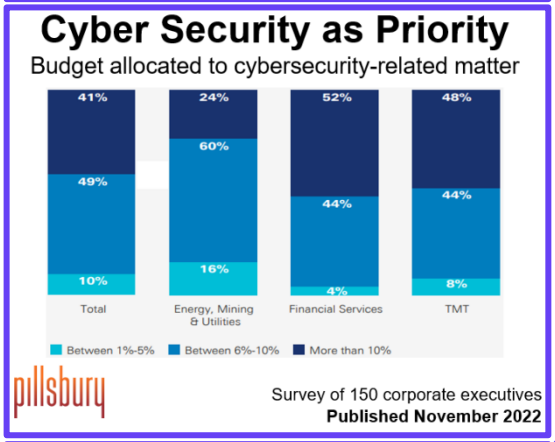

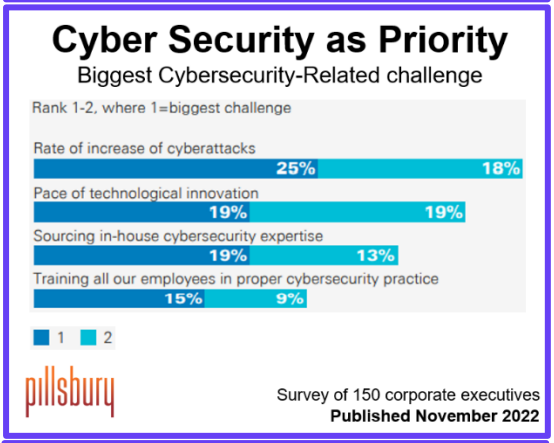

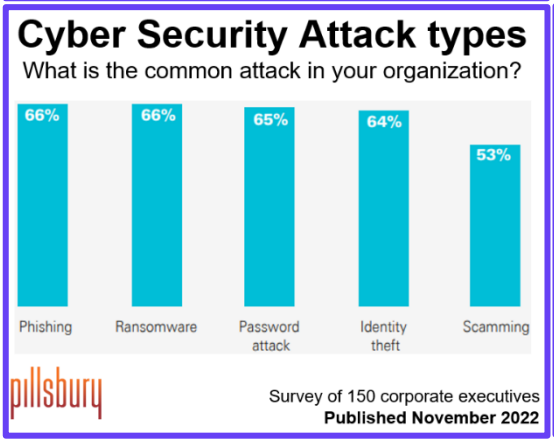

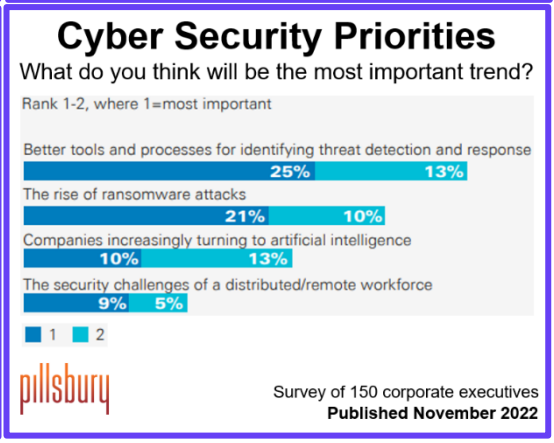

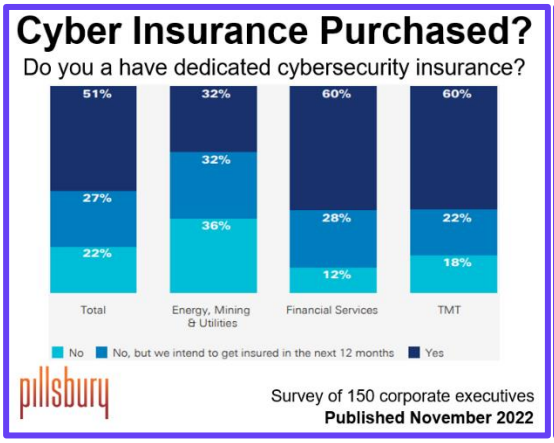

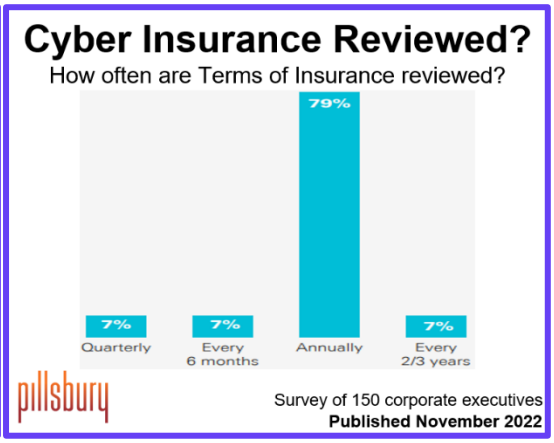

Cyber Insights: *Phishing & Malware*

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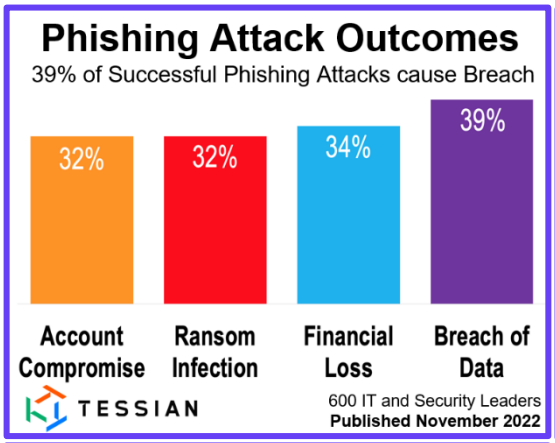

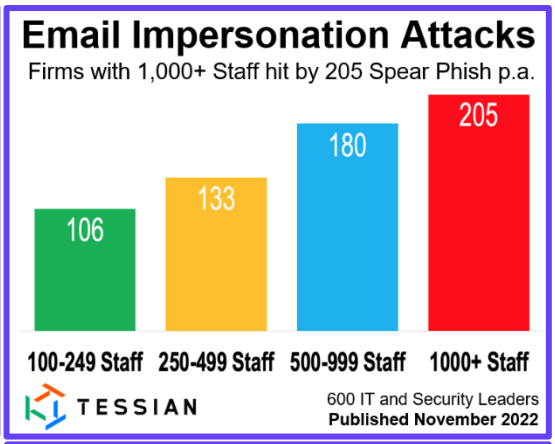

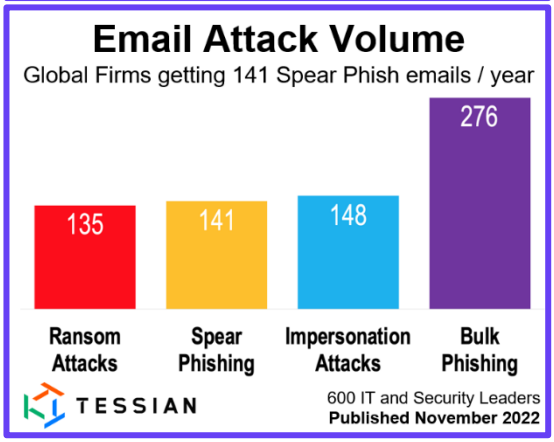

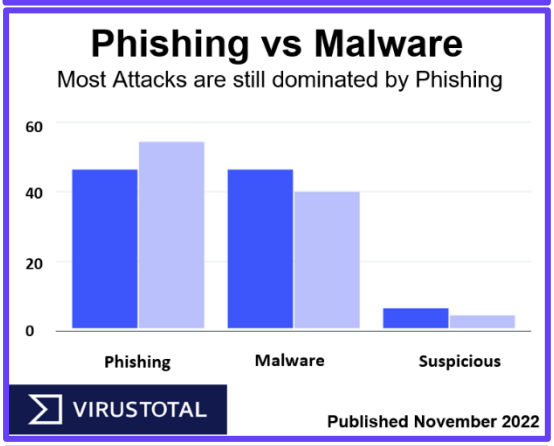

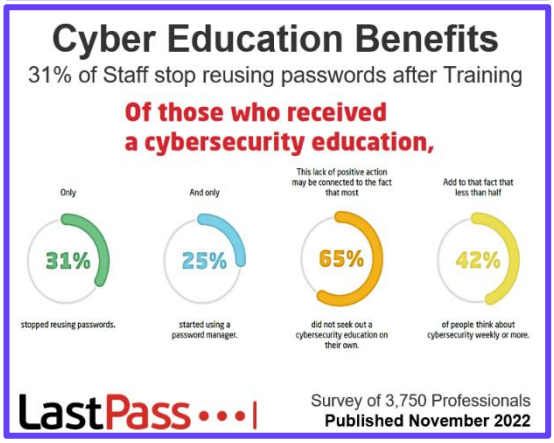

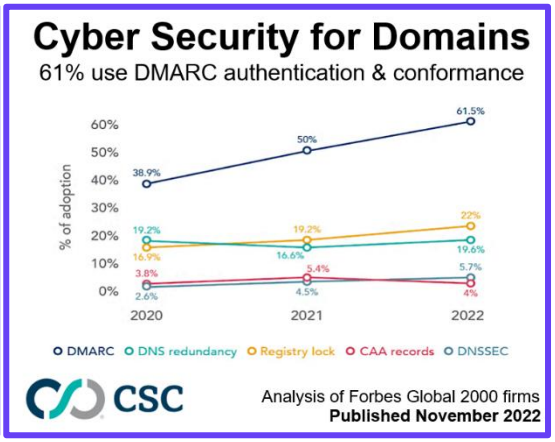

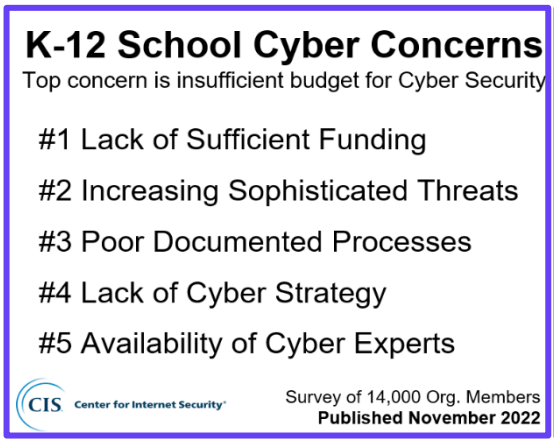

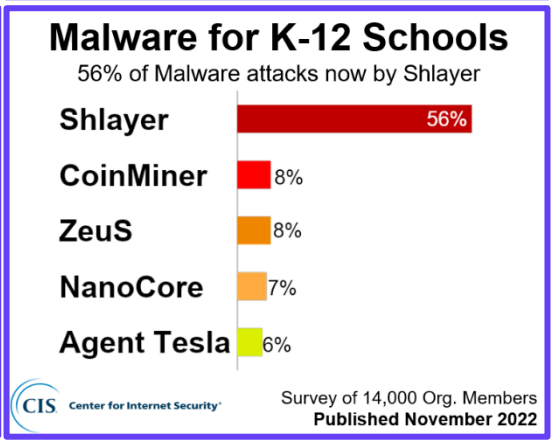

Cyber Insights: *Cyber Attacks*

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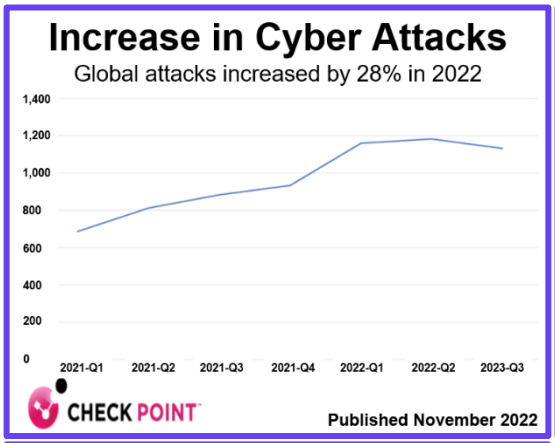

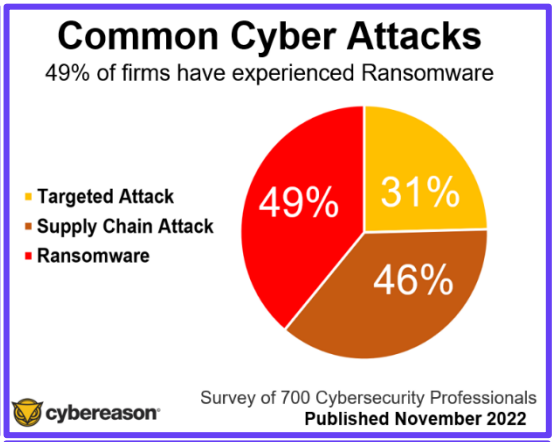

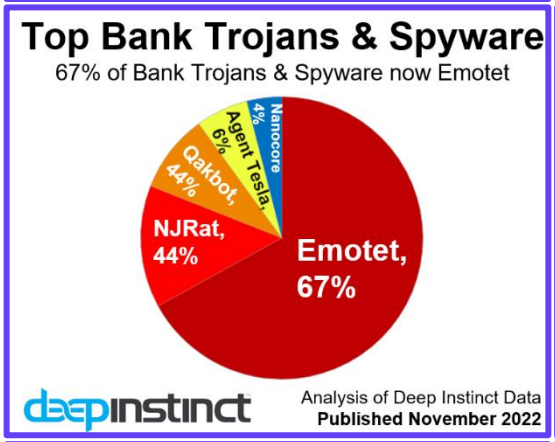

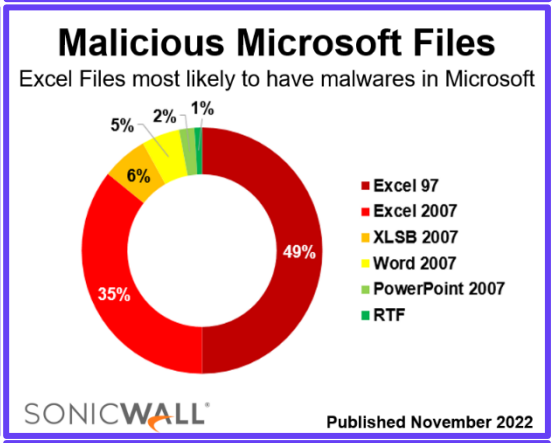

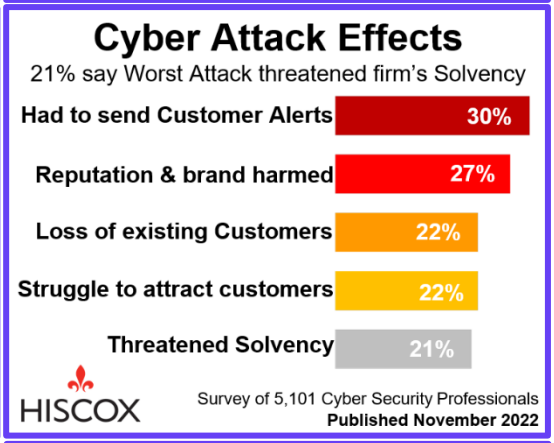

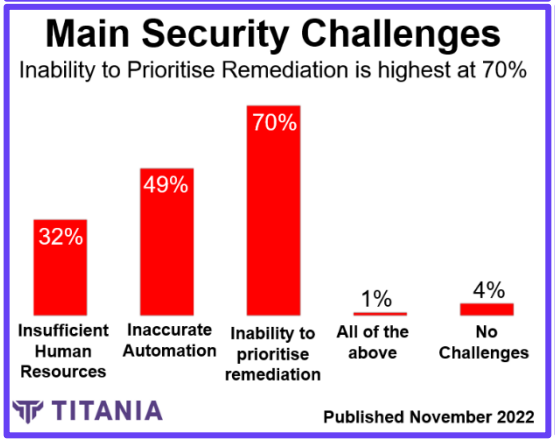

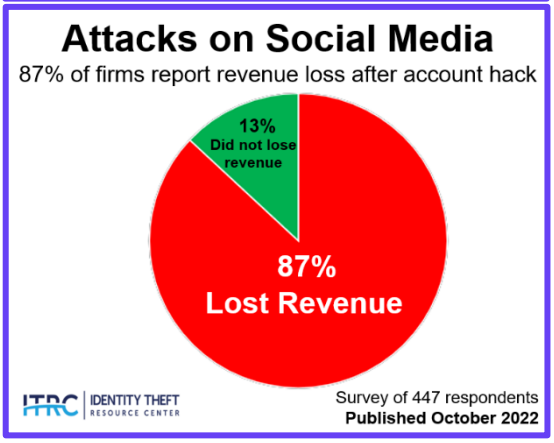

Cyber Insights: *Cyber Finances*

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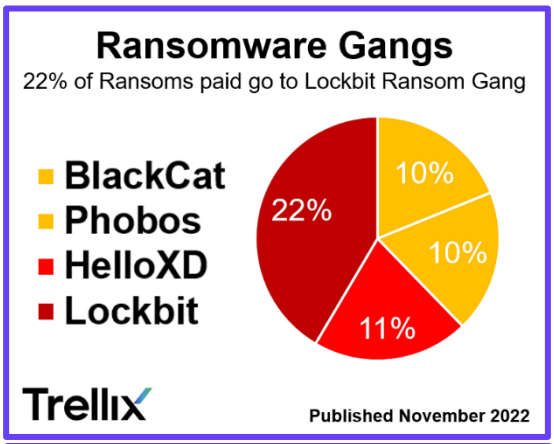

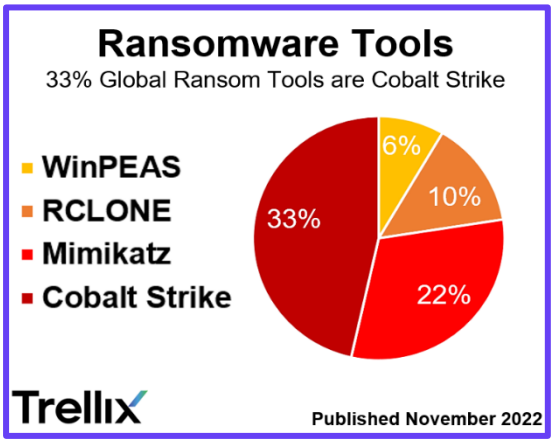

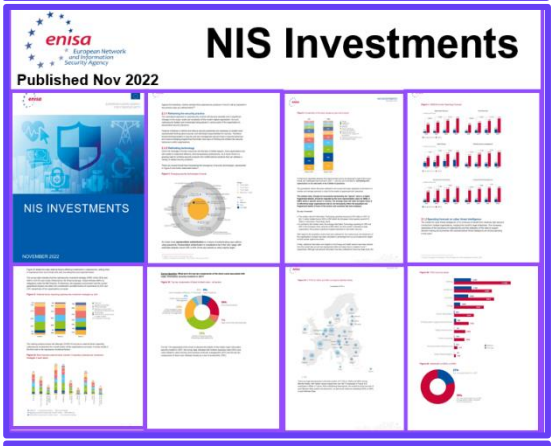

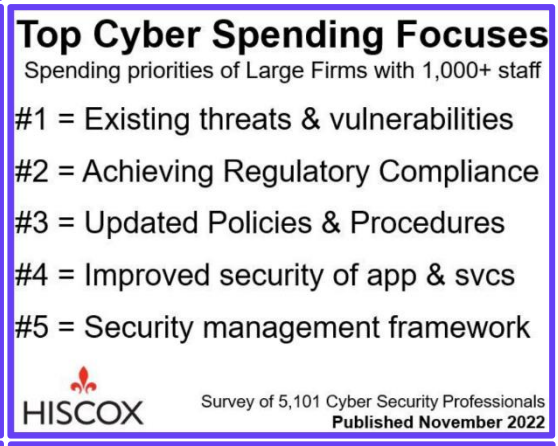

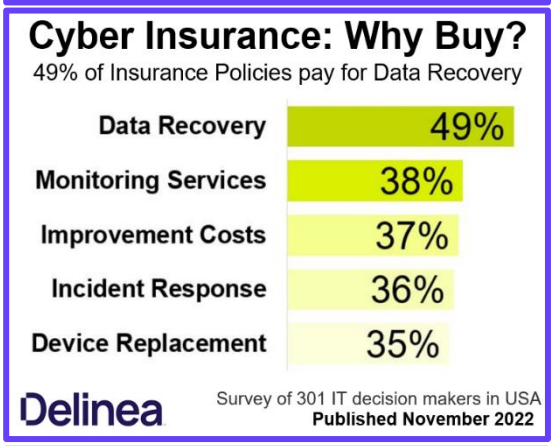

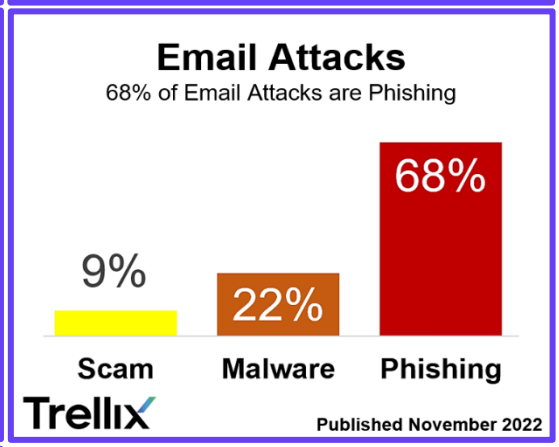

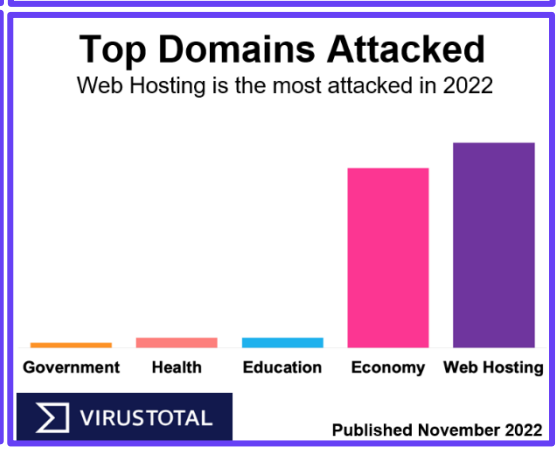

Cyber Insights: *Ransomware*

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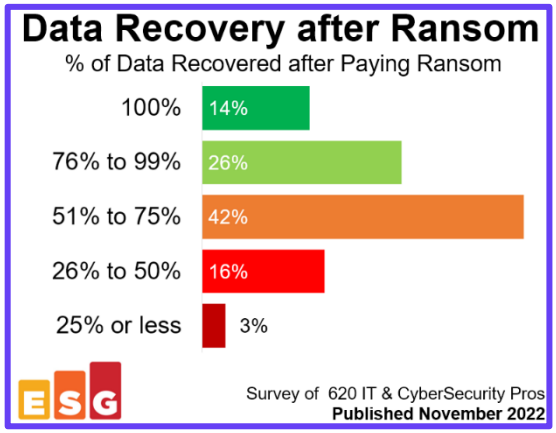

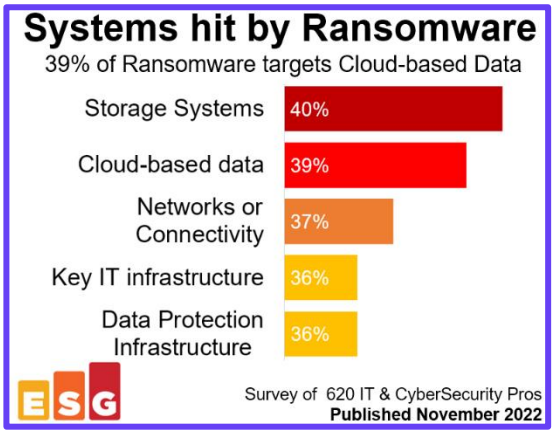

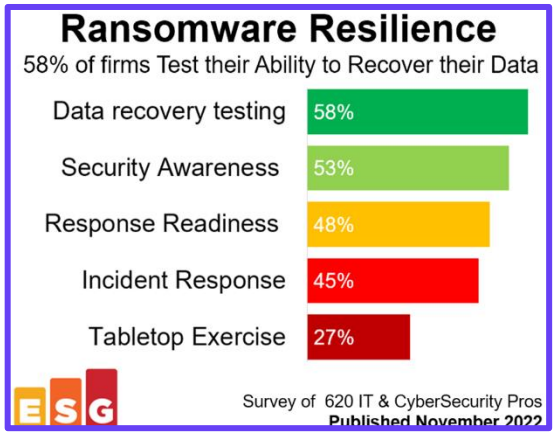

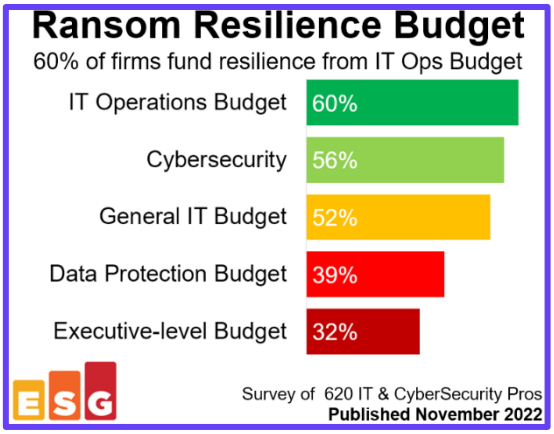

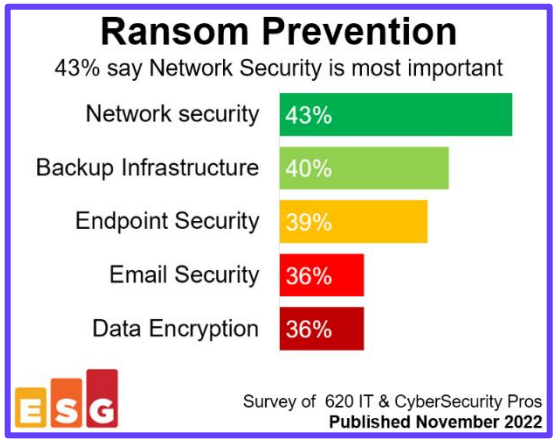

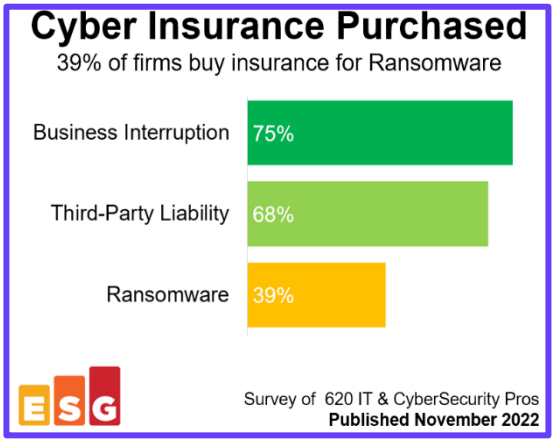

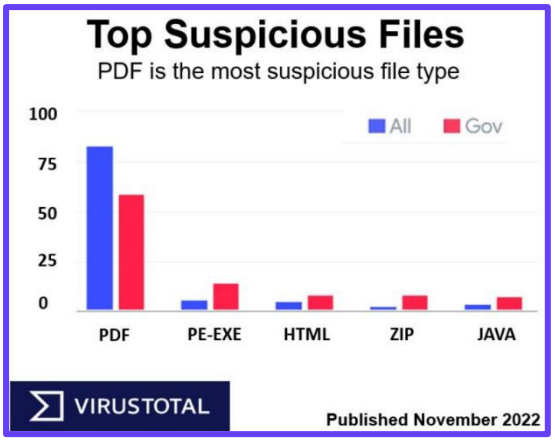

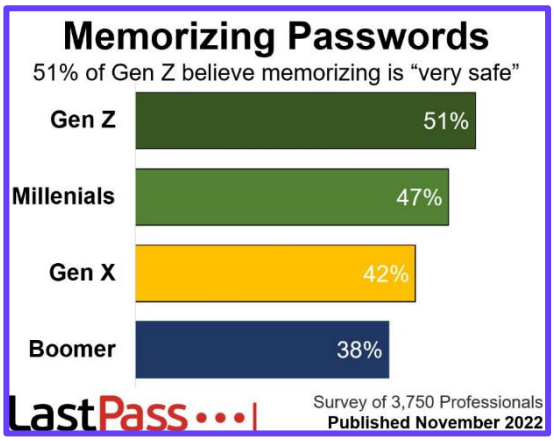

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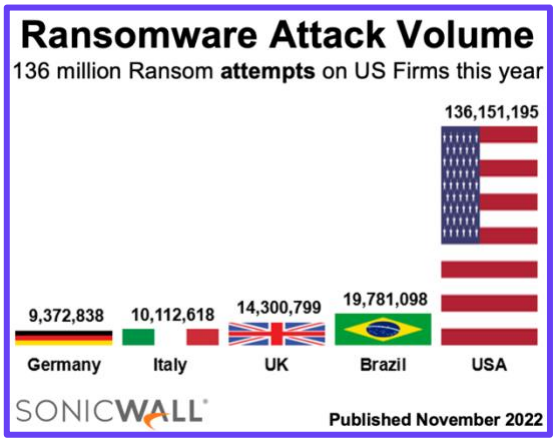

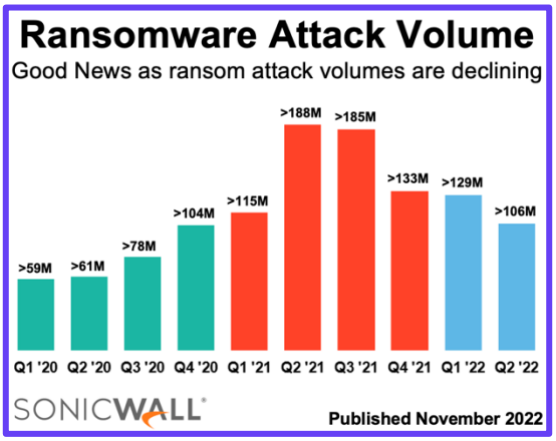

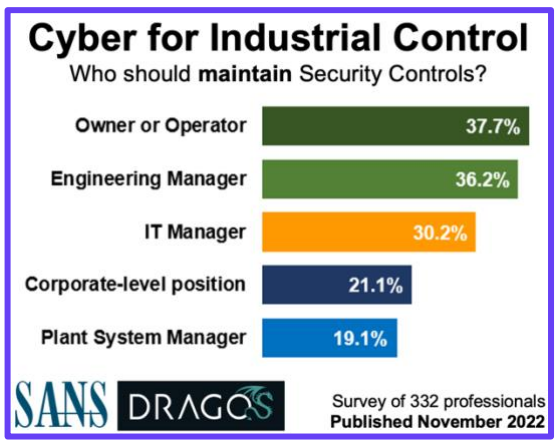

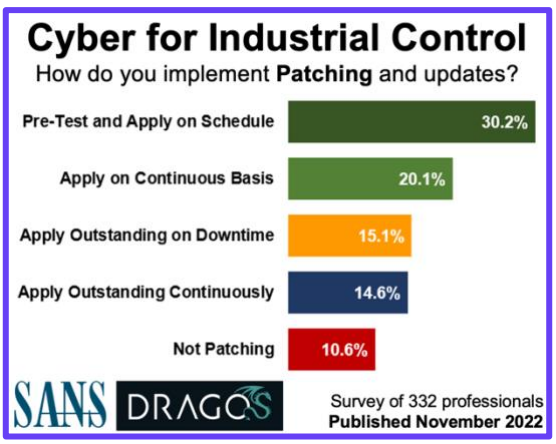

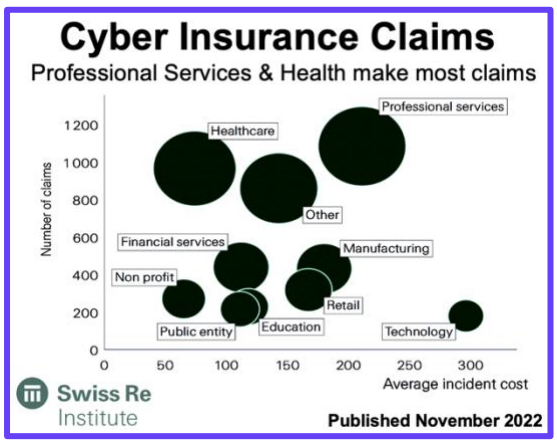

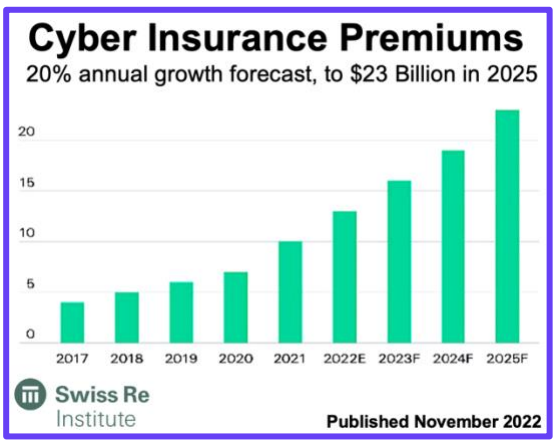

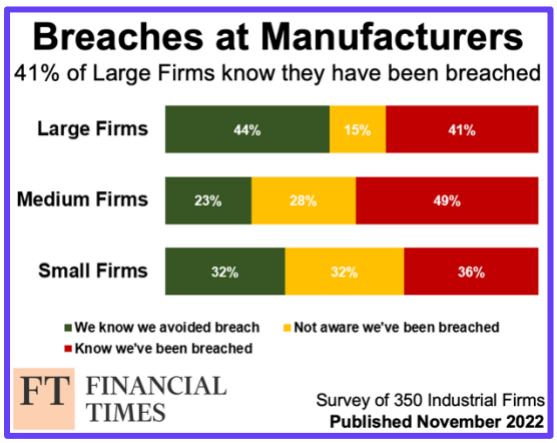

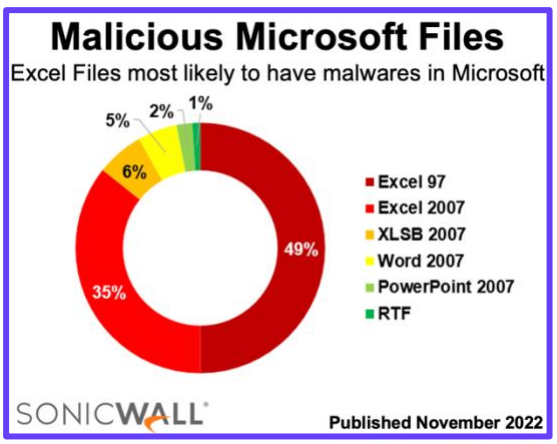

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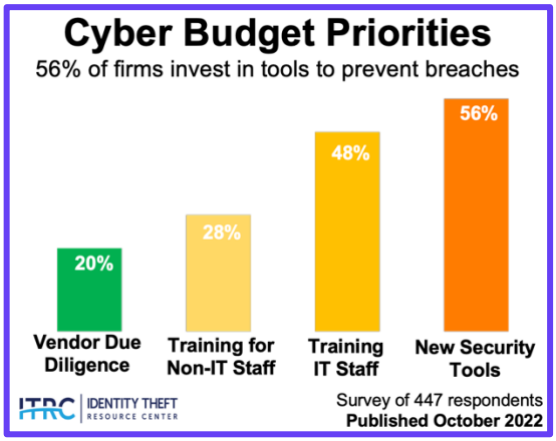
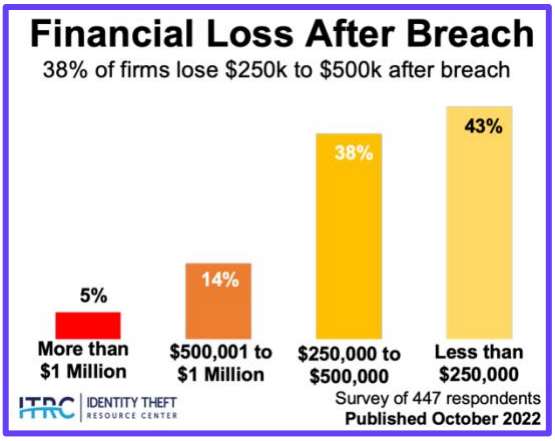
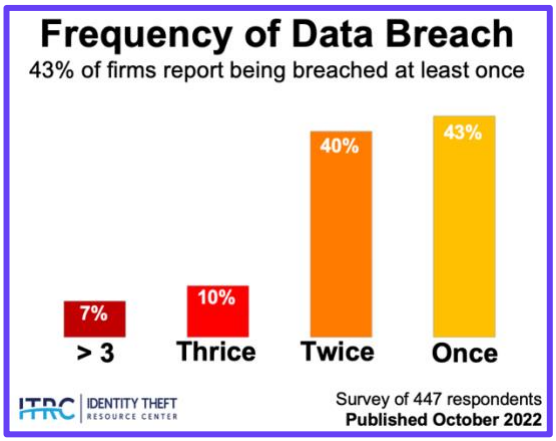
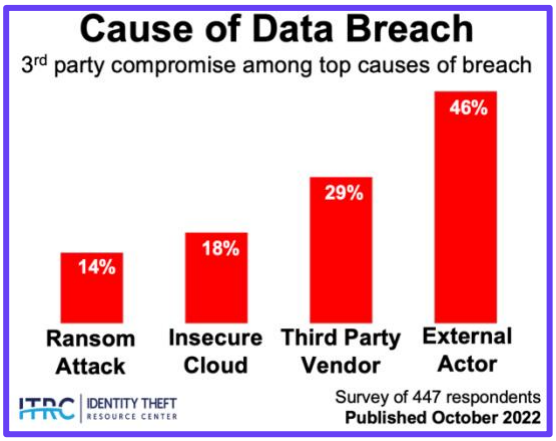
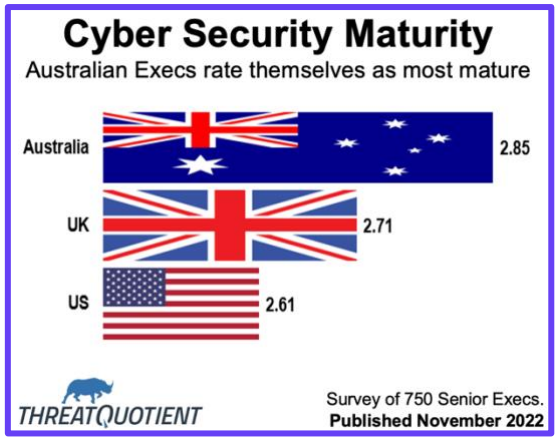
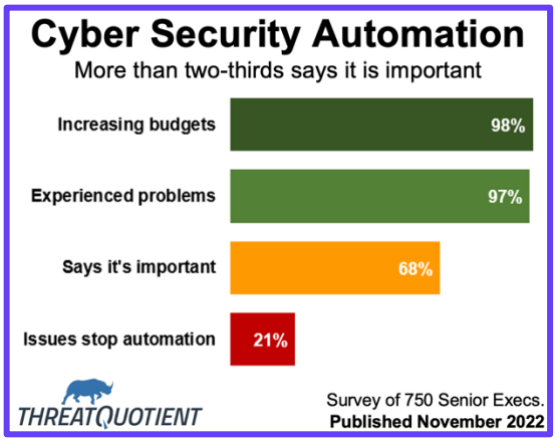


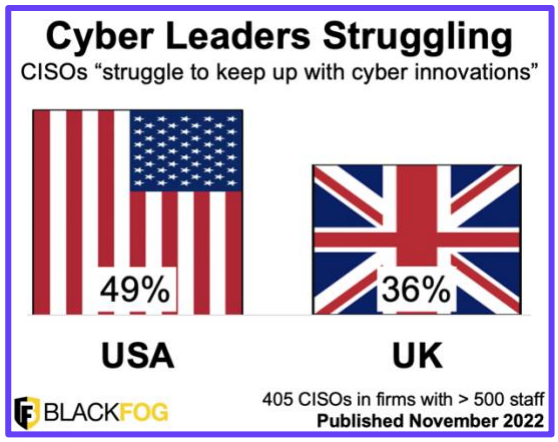






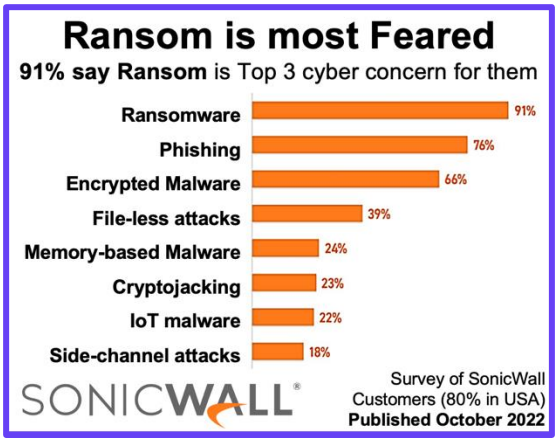


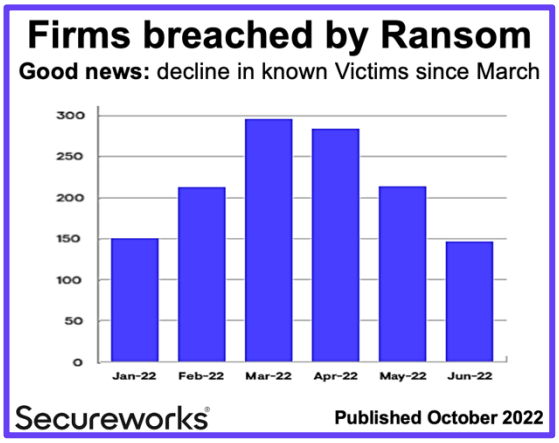


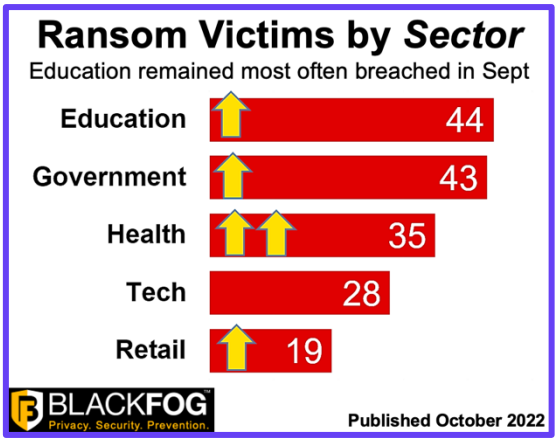


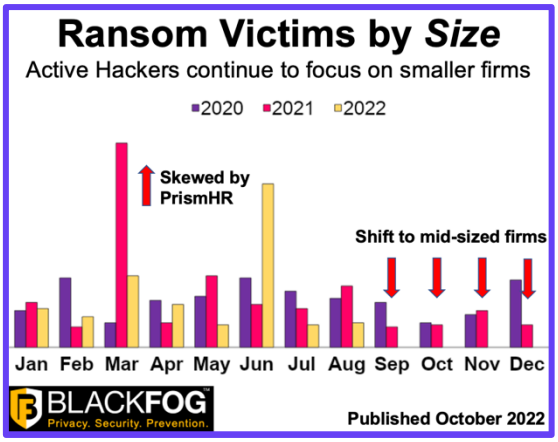
The Best Cyber Insights of 2022

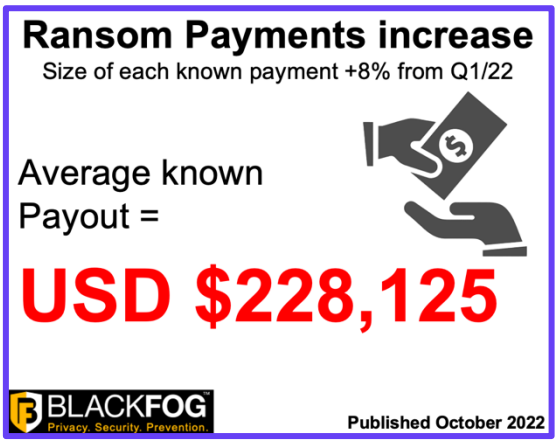
Click each image to see each report in full. All were published in month to November 2022

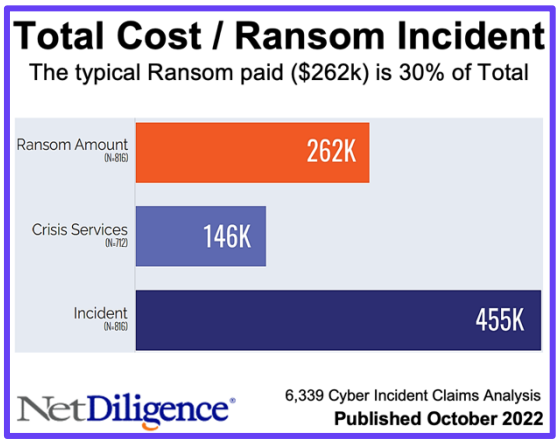


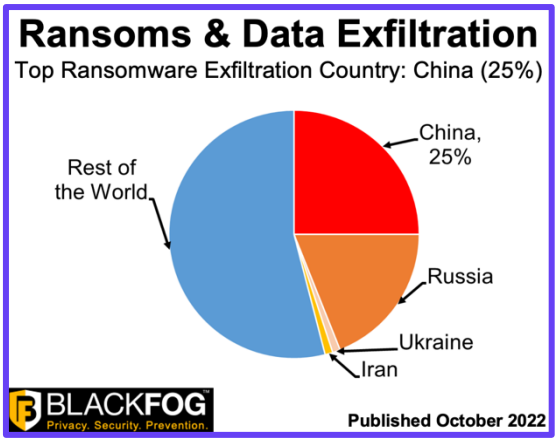


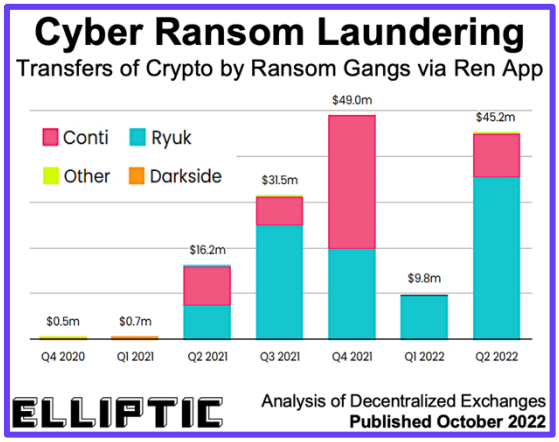






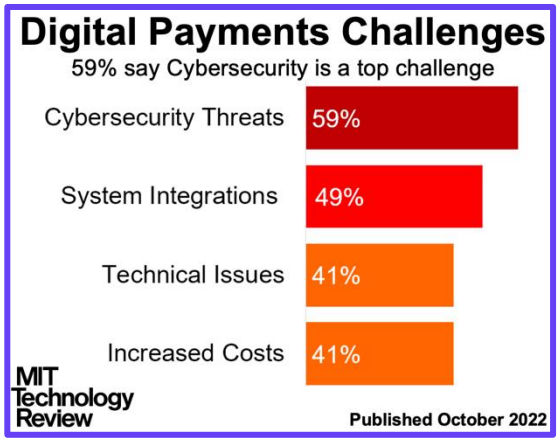


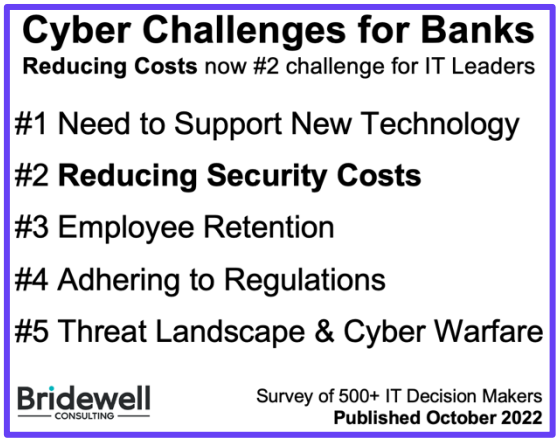


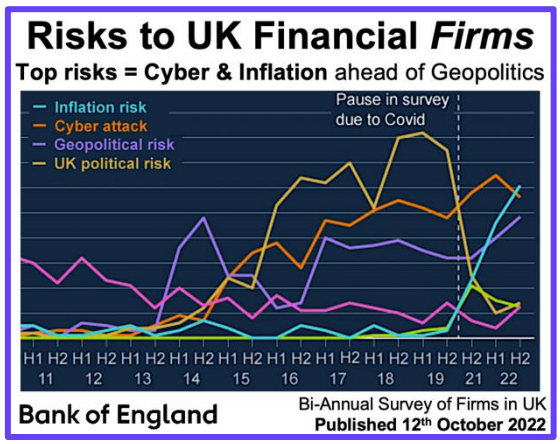


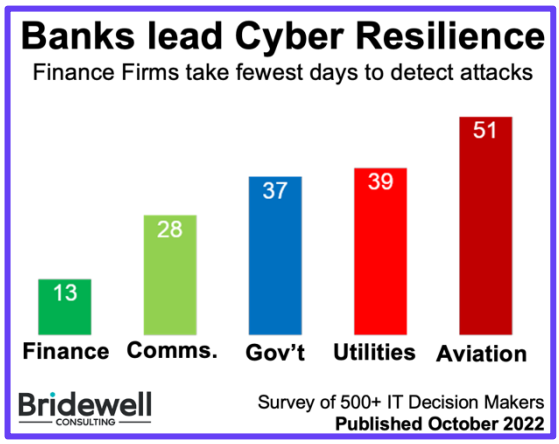
Cyber Insights: *Cyber in Banks*

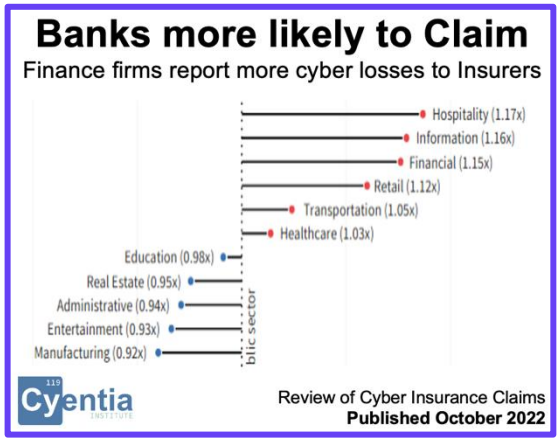
Click each image to see each report in full. All were published in month to November 2022

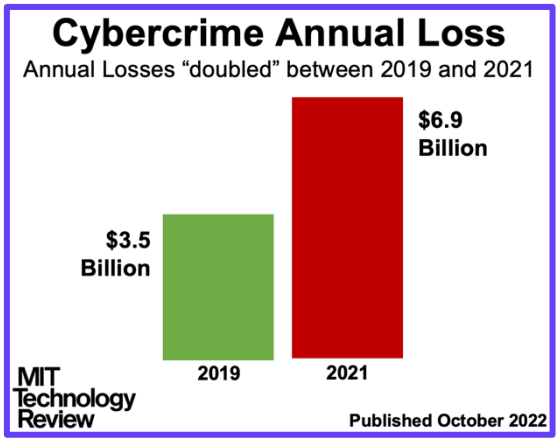


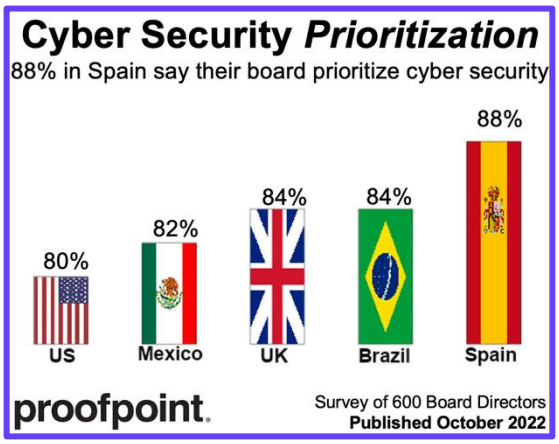


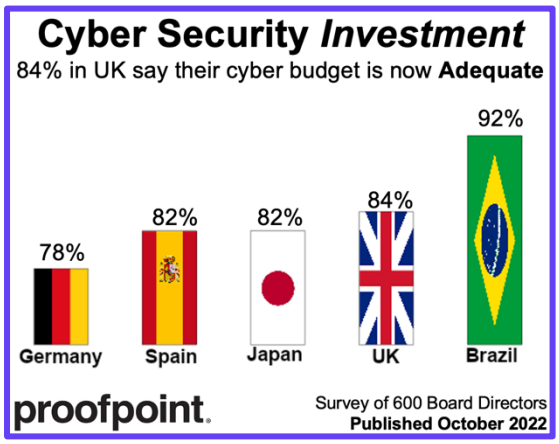












Cyber Insights: *Cyber Risk Quantification*

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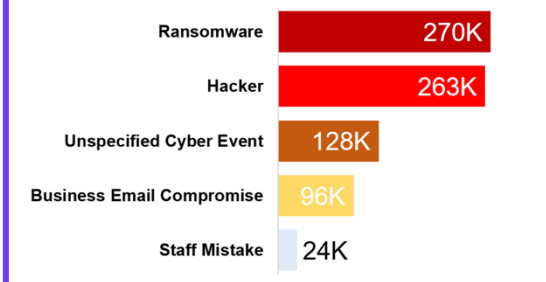
Top Cyber Insurance Claims

Ransomware is now most frequently claimed type

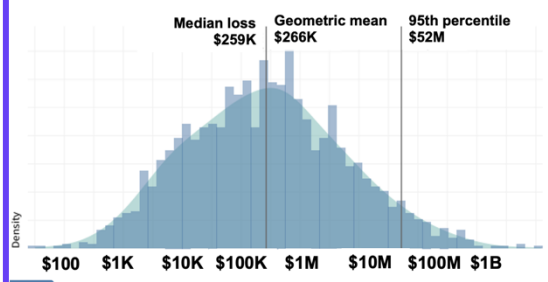


NetDiligence

6,339 Cyber Incident Claims Analysis
Published October 2022

Cyber Incident Costs in USD

Median loss per insured Cyber Incident is $259K

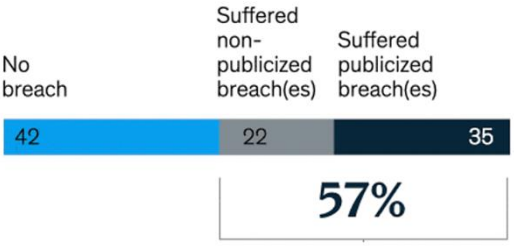


Cyentia

Review of Cyber Insurance Claims
Published October 2022

Cyber Incident Frequency

57% of firms hit by data breaches in past 3 years

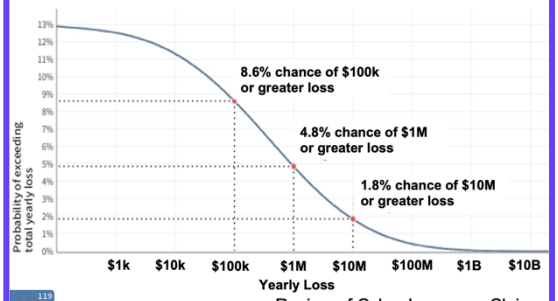


QuantumBlack AI by McKinsey

Published October 2022

Cyber Incident Frequency

>8% chance of $100k or more loss in a cyber event

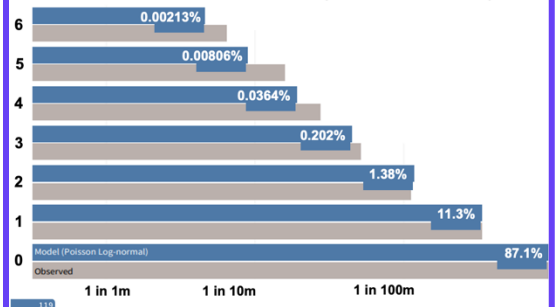


Cyentia

Review of Cyber Insurance Claims
Published October 2022

Cyber Incident Frequency

1.4% of Insured claim for 2 Cyber Incidents / year

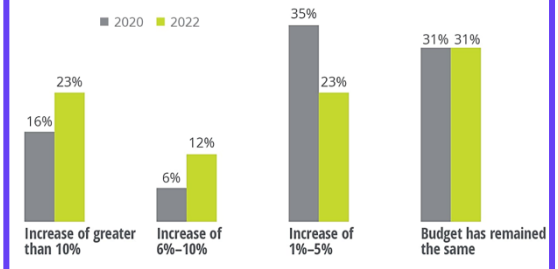


Cyentia

Published October 2022

Cyber Security Budgets

23% of US State Govs increased >10% since 2020

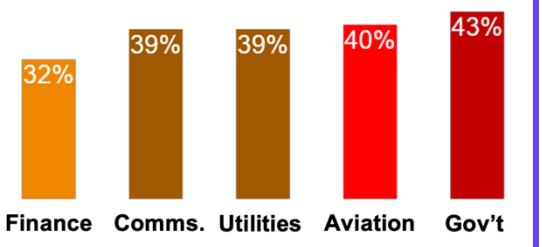


Deloitte.

41 CISOs in USA State Governments
Published October 2022

Cyber Security Budgets

Governments spend 43% of IT Budget on Security

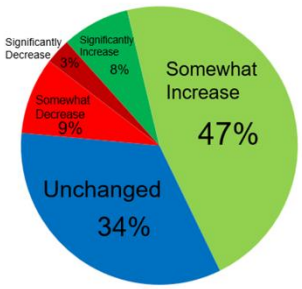


Bridewell CONSULTING

Survey of 500+ IT Decision Makers
Published October 2022

Cyber Security Budgets

12% of Firms said their Cyber Budget will Fall



FitchRatings

Survey of 2,031 Firms, by ISACA in Dec '21
Published by Fitch in Sept '22

Cyber Insights: *Cyber Incident Response*

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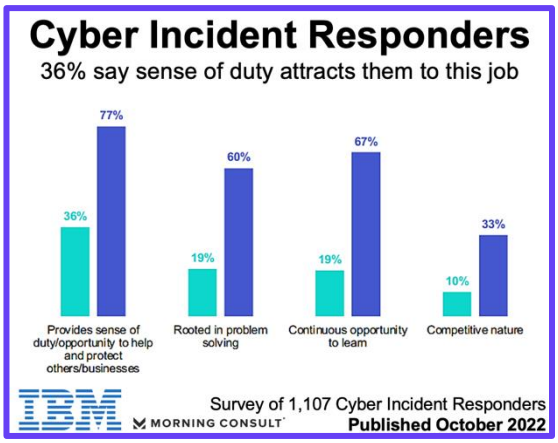

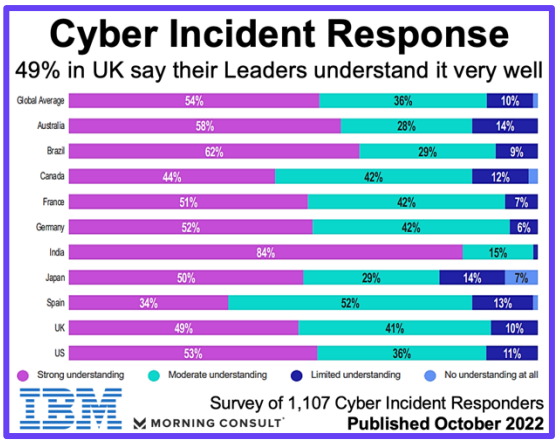

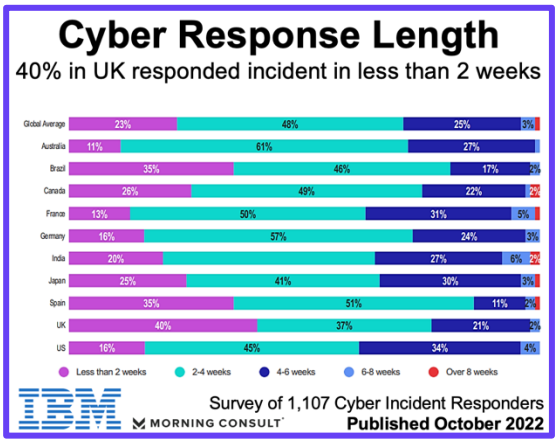

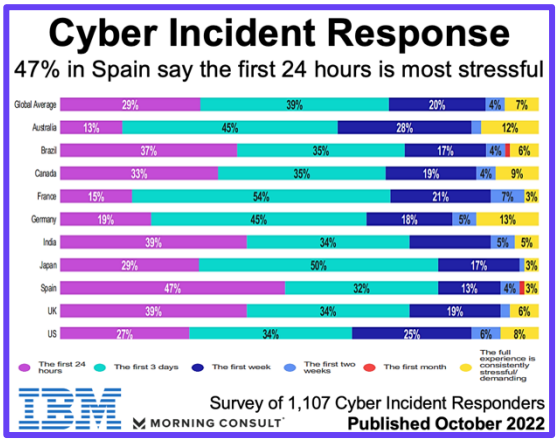

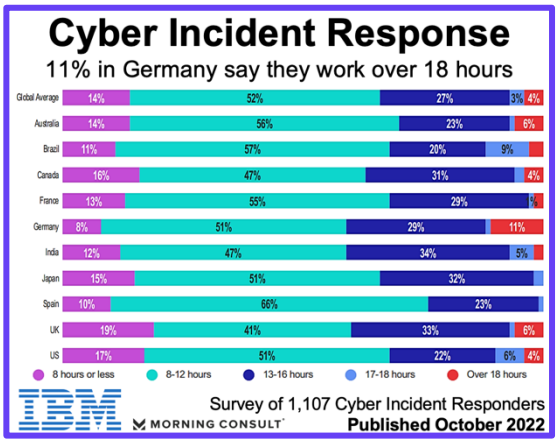

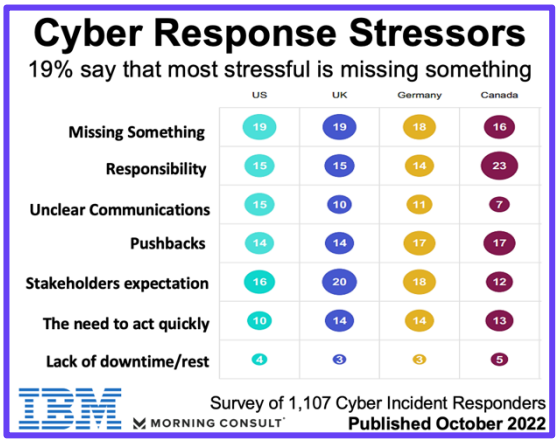

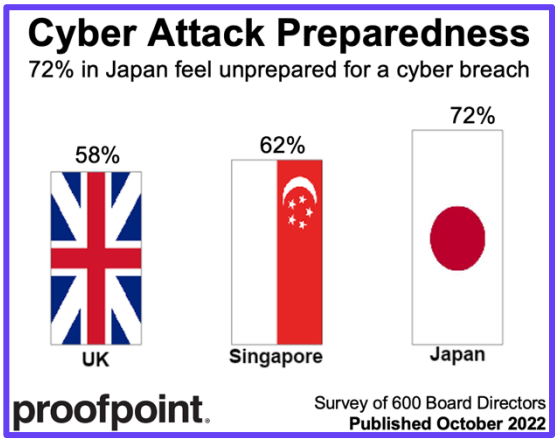

Cyber Insights: *CISOs in the Boardroom*

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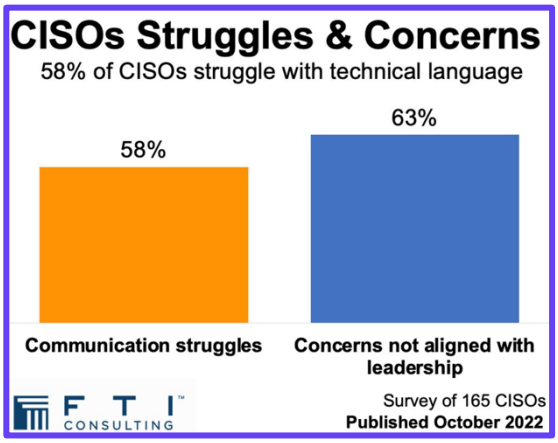

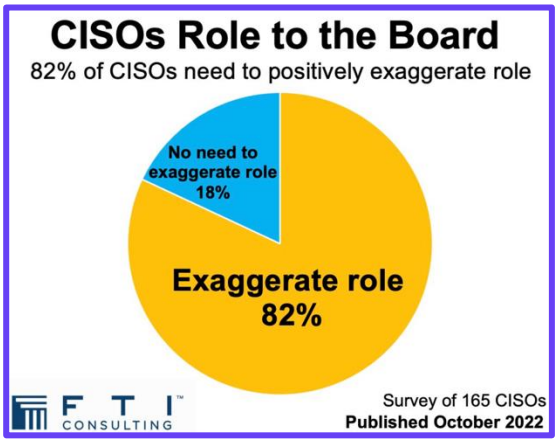

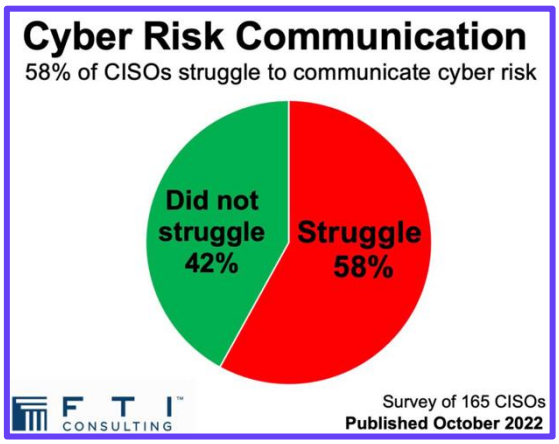

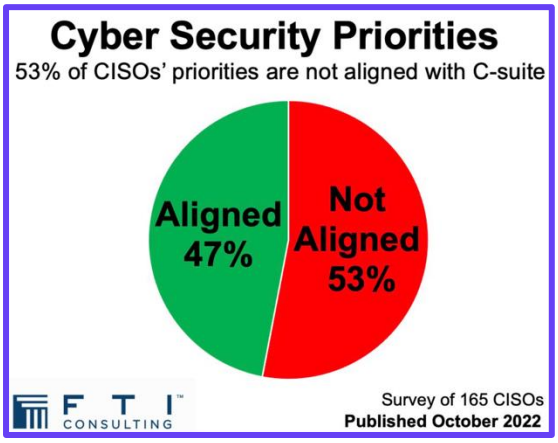

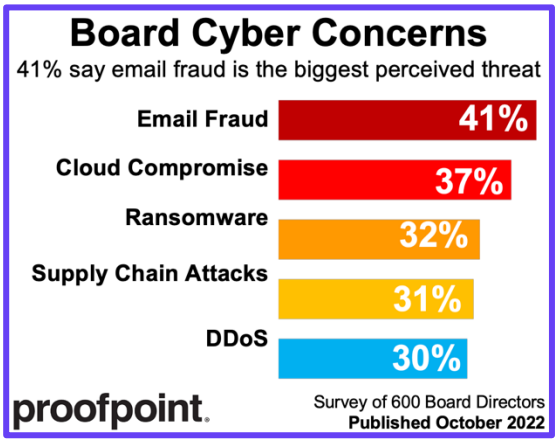

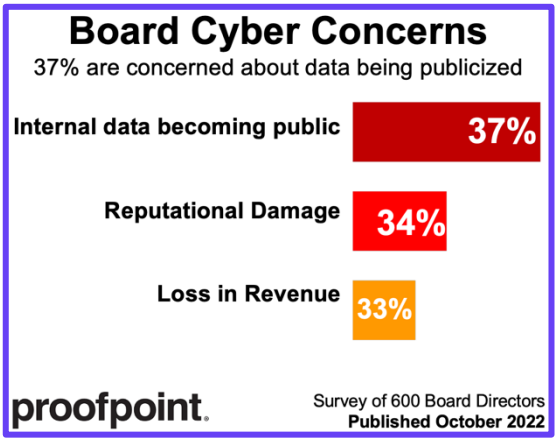

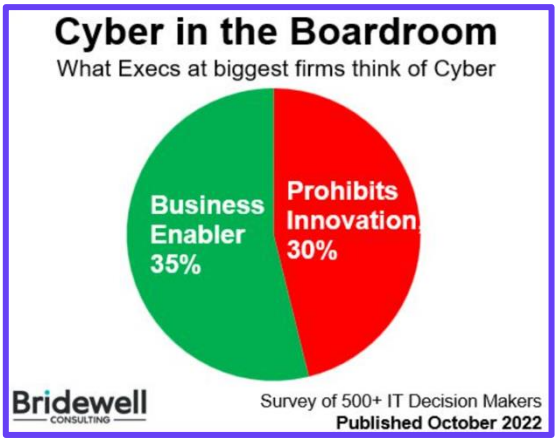

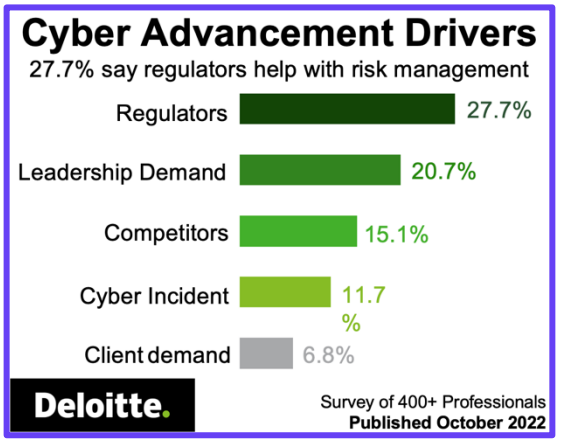

Cyber Insights: *Cyber Development*

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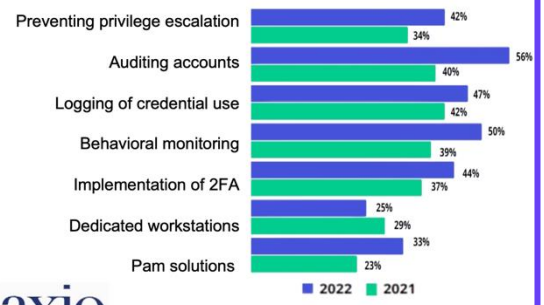
Ransomware Preparedness

9% improvement of privilege escalation indicated



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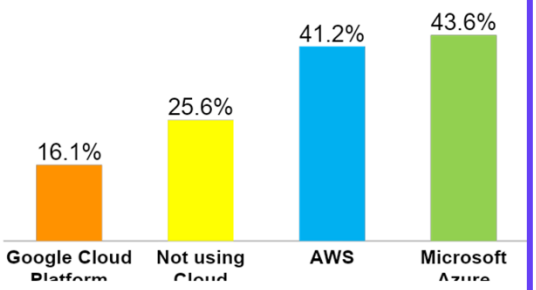
Cloud as Disaster Strategy

43.6% are using Microsoft Azure as protection



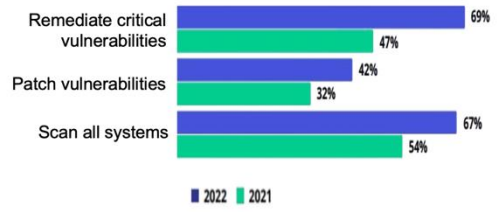
Zerto a Hewlett Packard Enterprise company

211 End Users & Service Providers

Published October 2022

Vulnerability Management

67% report that they scan all systems in 2022



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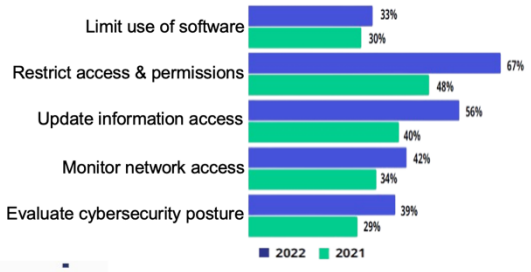
Third Party Management

10% Increase for Evaluation of Cyber Posture



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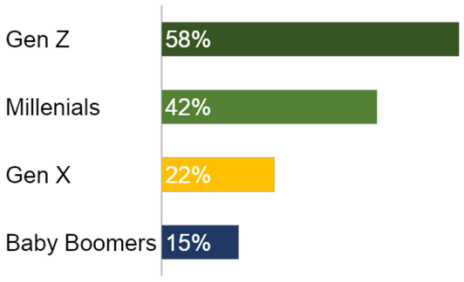
Knowledge on Cybersecurity

Younger Gens disregard mandatory IT updates



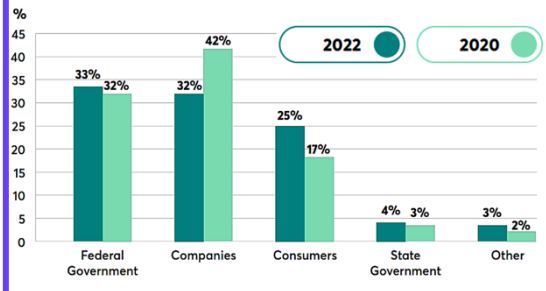
EY

Survey of 1,000 full- and part-time US employees aged 18+

Published October 2022

Consumer Cyber Readiness

Companies' Privacy Accountability preferred at 42%



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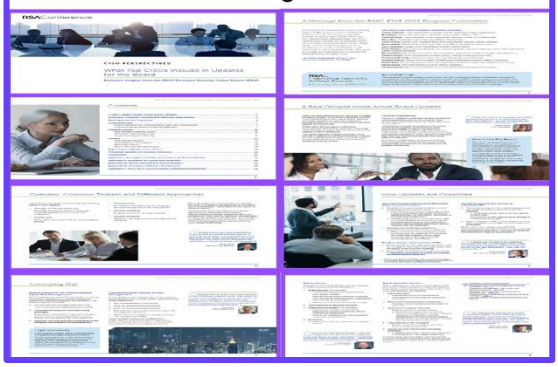

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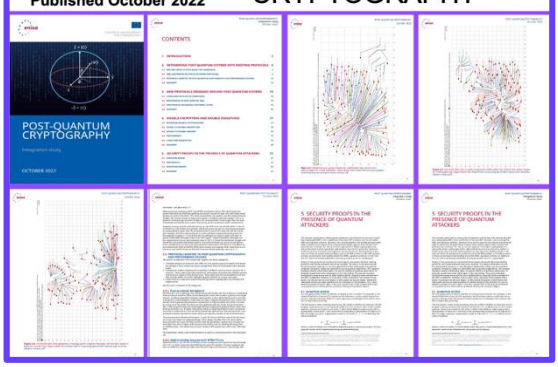

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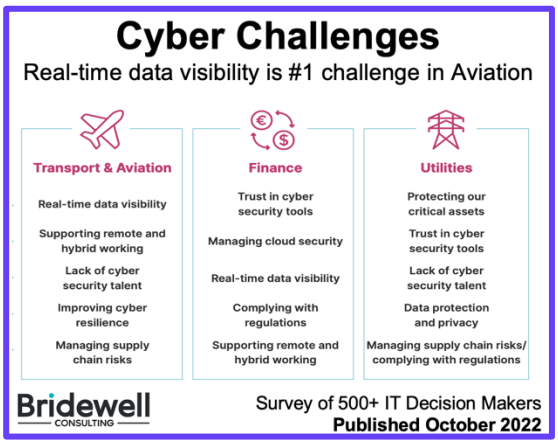

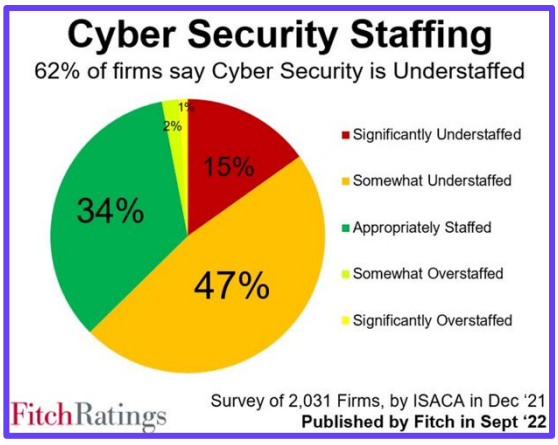

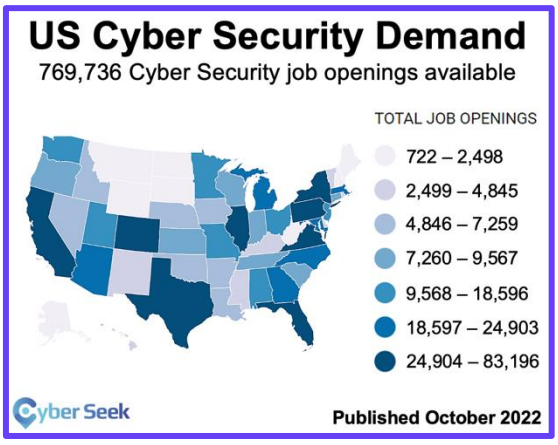

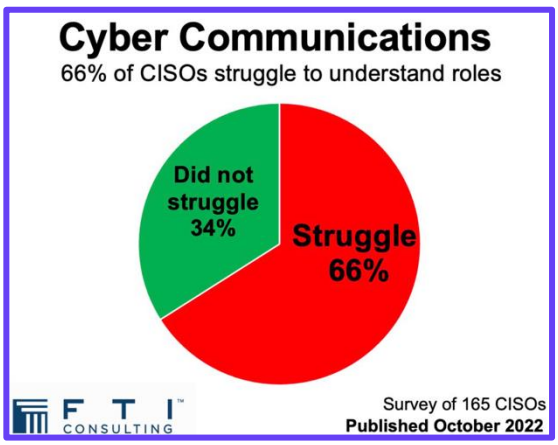

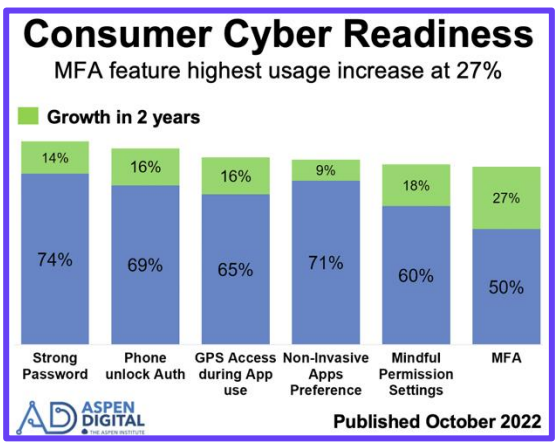

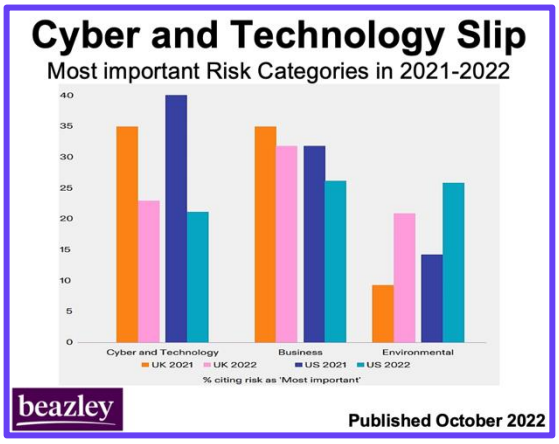

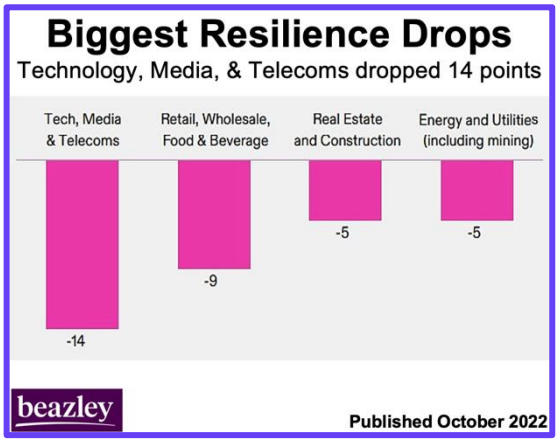

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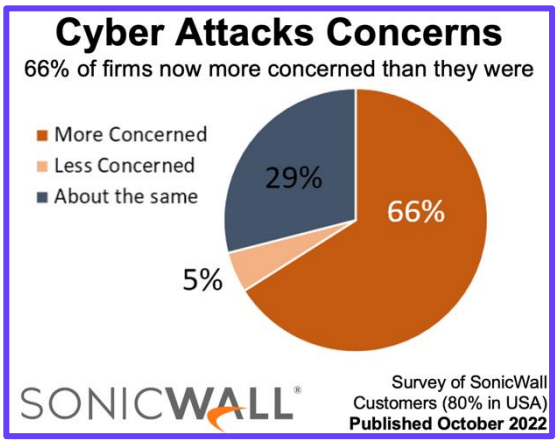

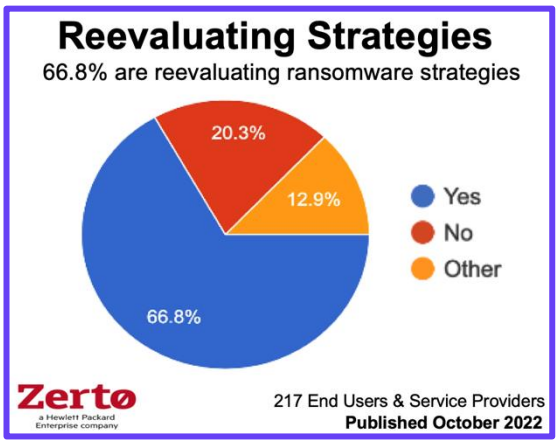

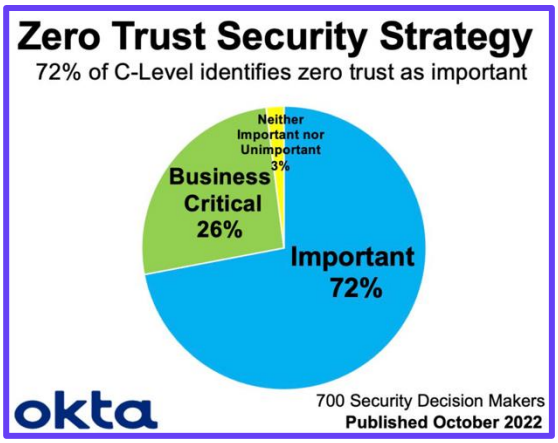

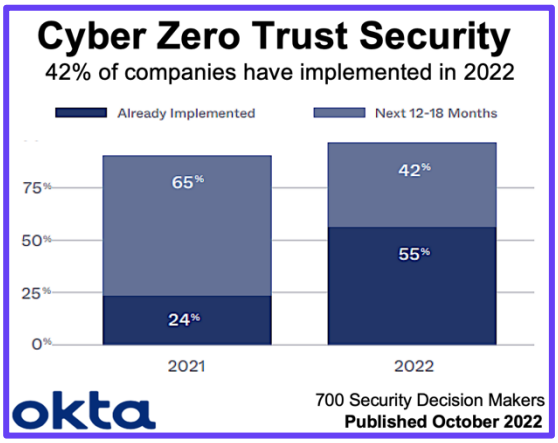

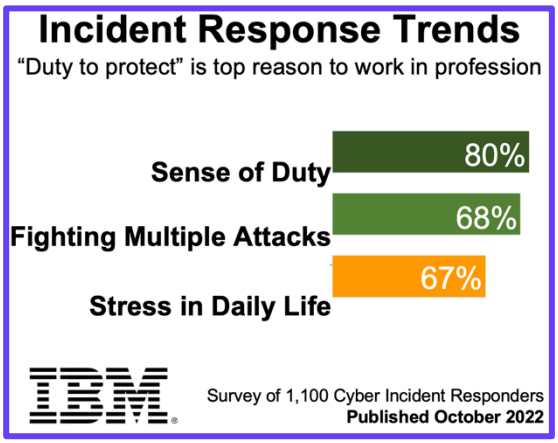

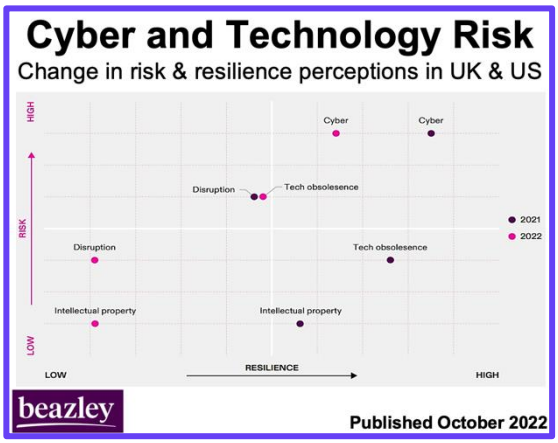

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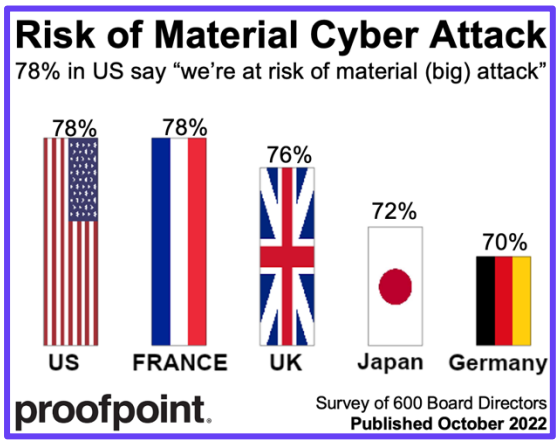

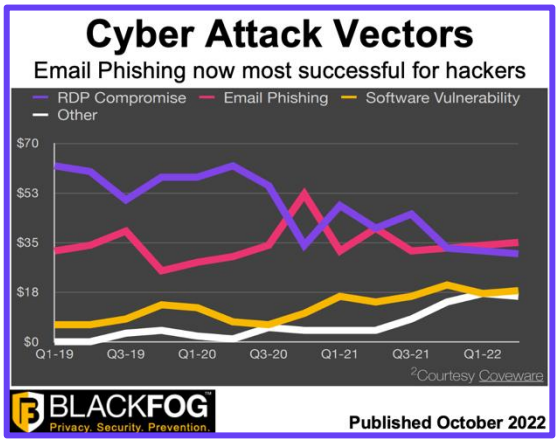

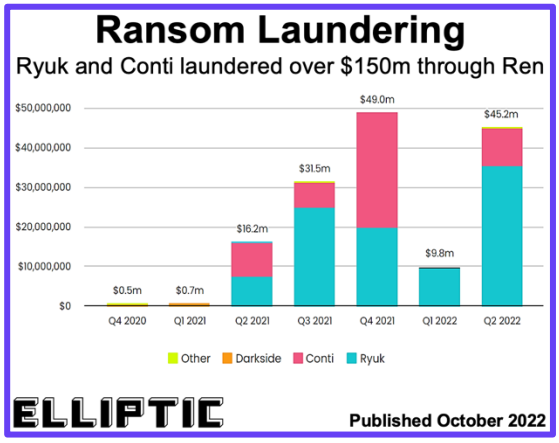

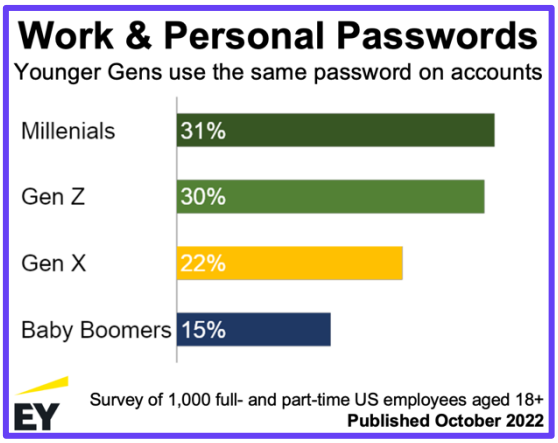

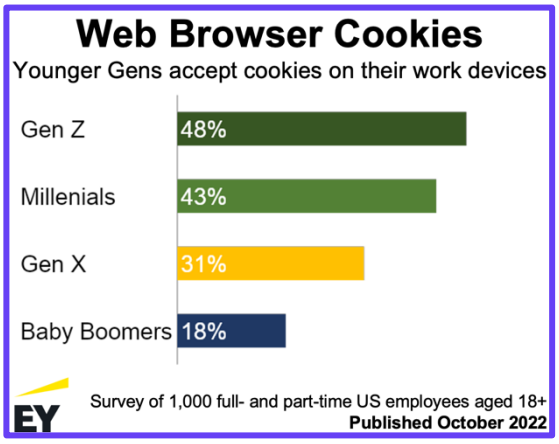

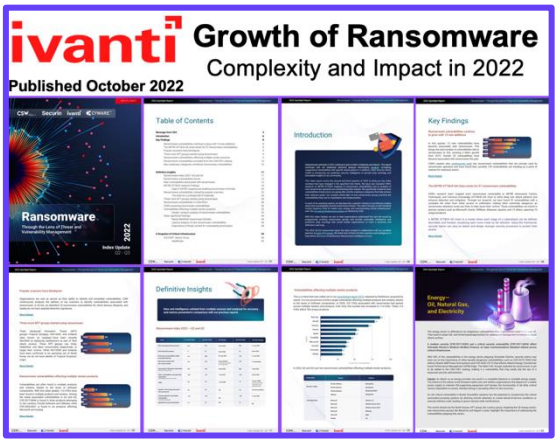

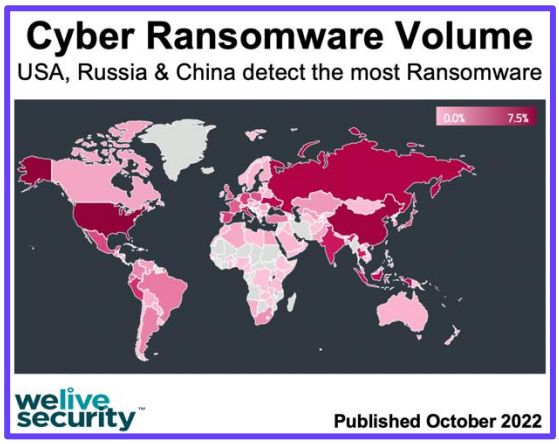

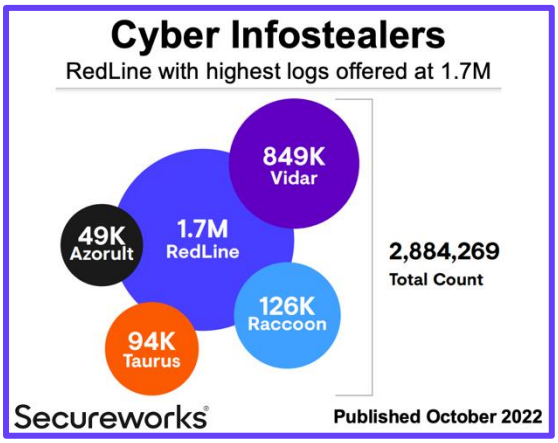

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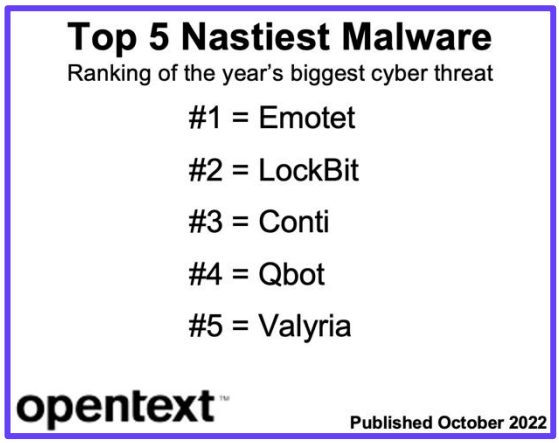

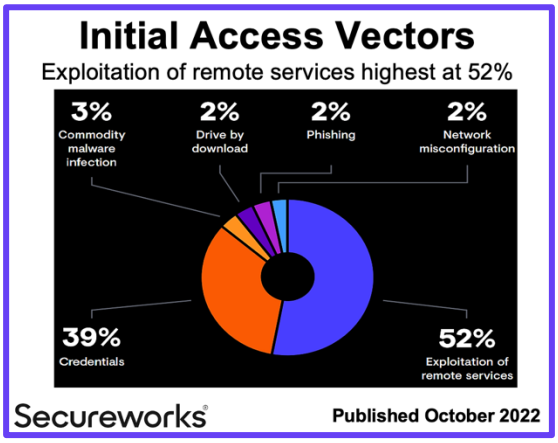

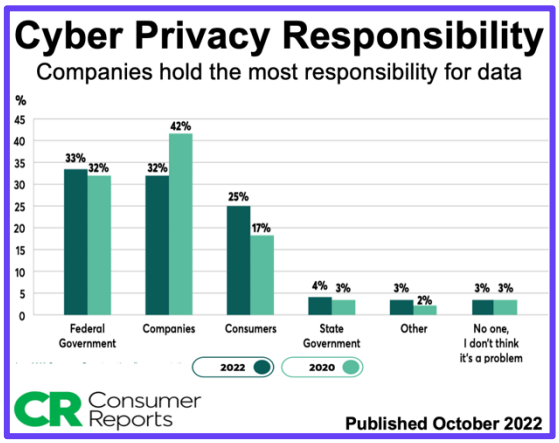

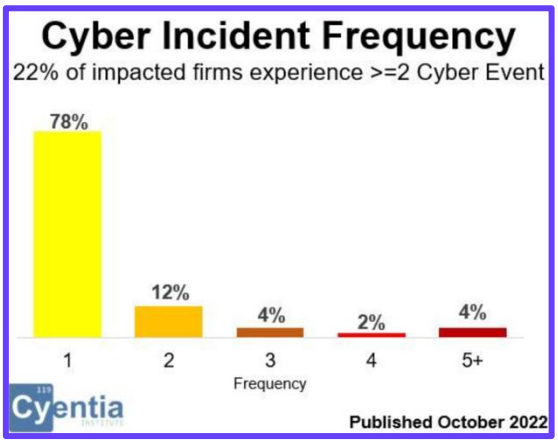

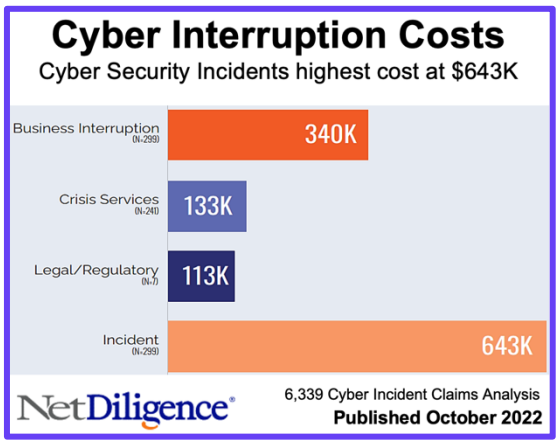

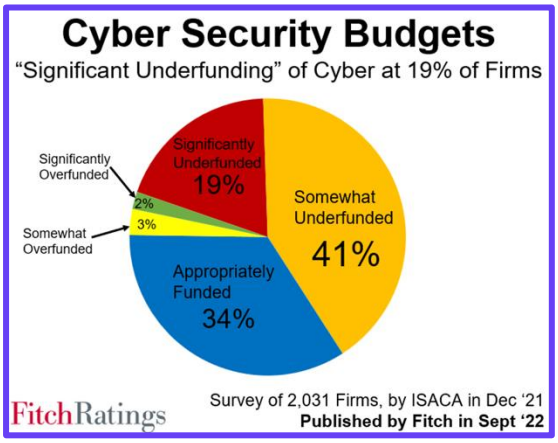

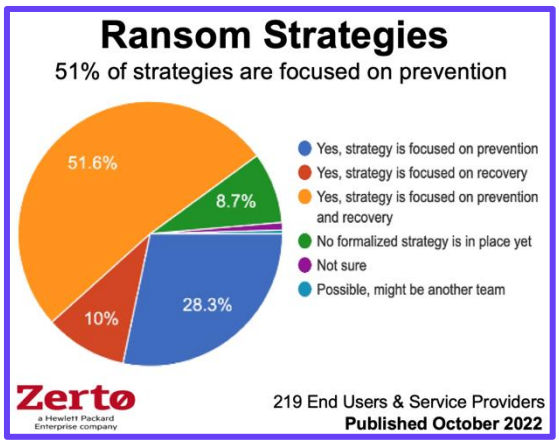

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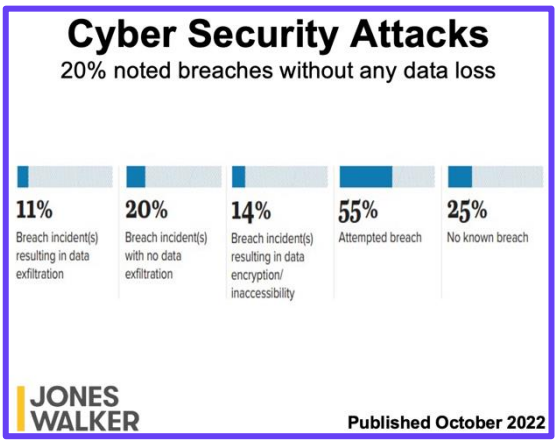

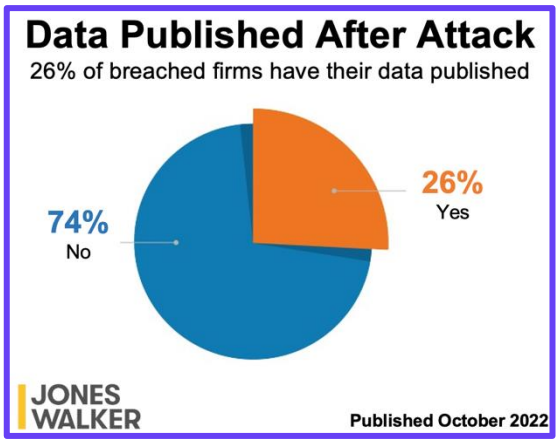

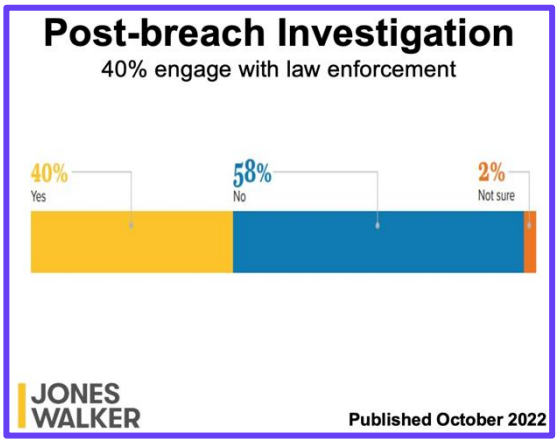

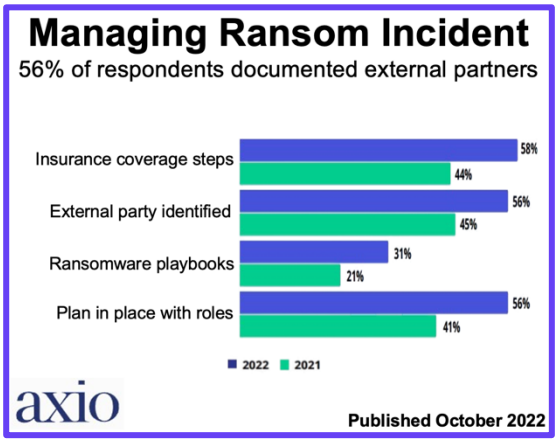

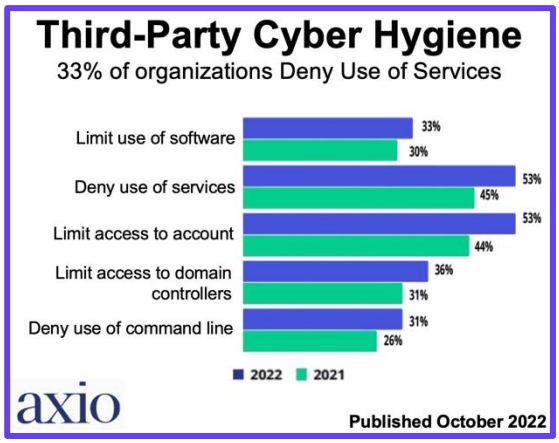

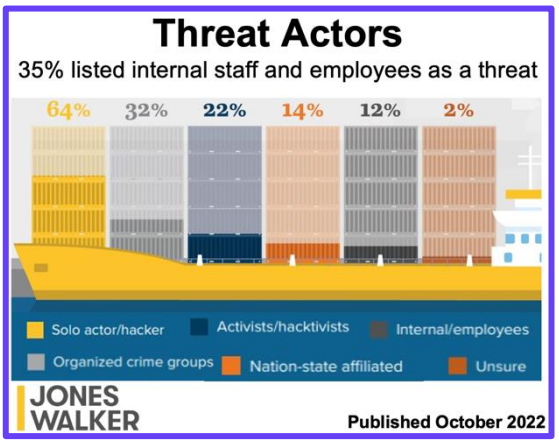

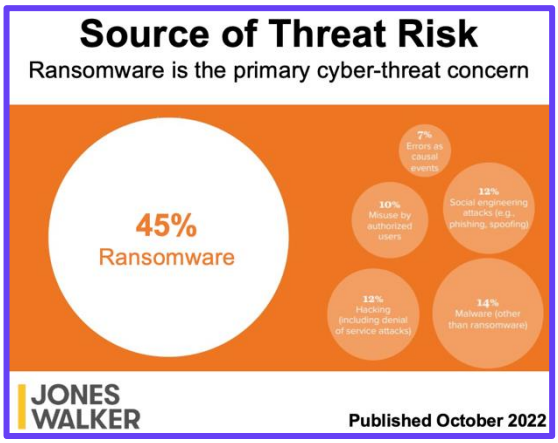

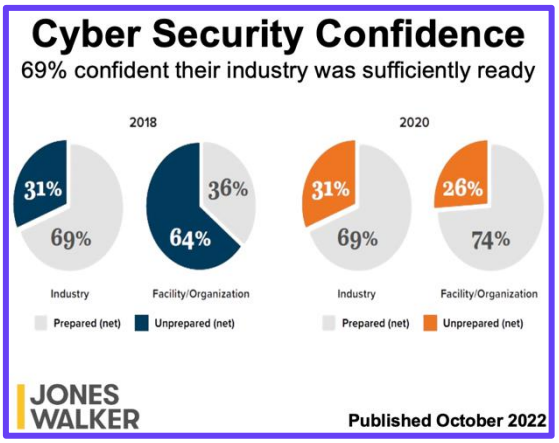

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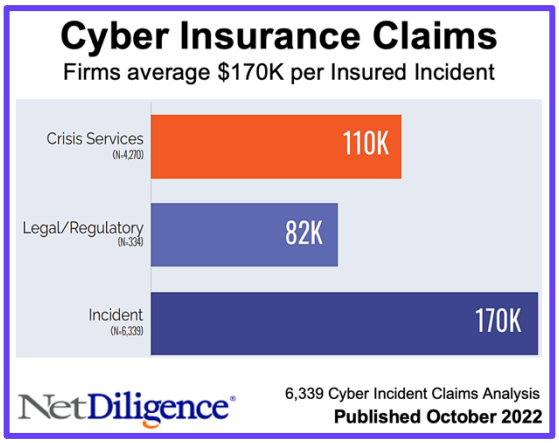

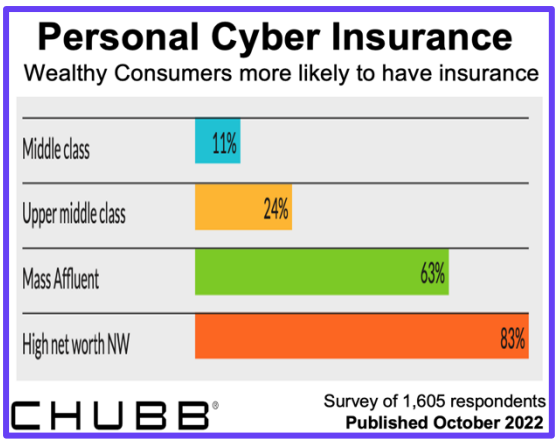

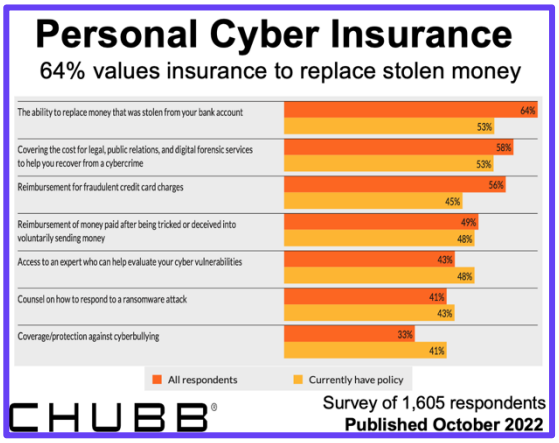

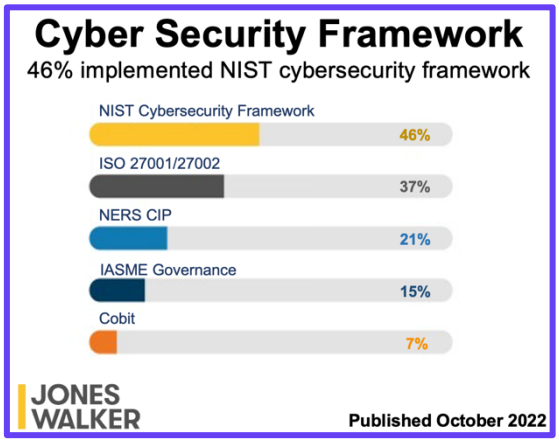

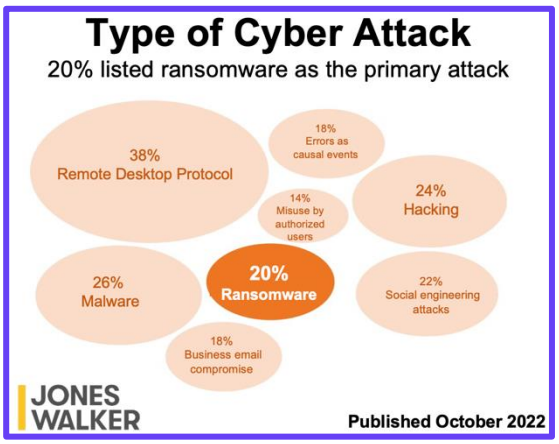

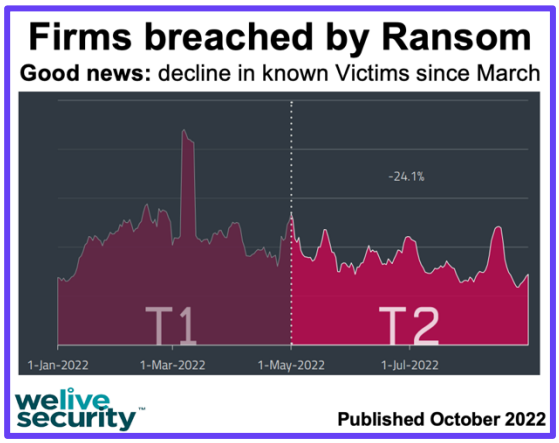

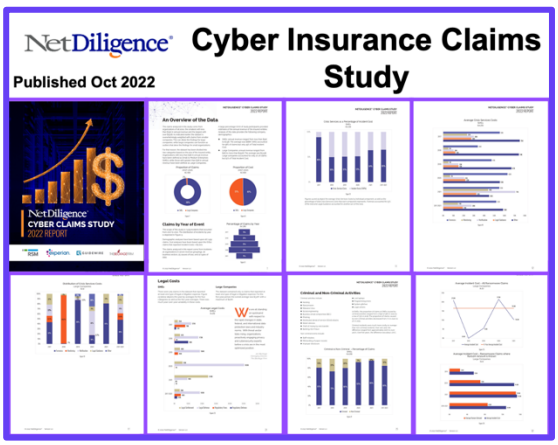

The Best Cyber Insights of 2022

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Cyber Insurance Essentials

To buy Insurance, firms must often demonstrate 10:

1. IT Security Leadership
2. Staff Training on cyber
3. Strong Passwords
4. System Backups
5. Regulatory Compliance
6. MFA
7. IRP
8. EDR
9. TPRM
10. Pen Testing

FitchRatings

Published September 2022

Cyber Insurance Pricing

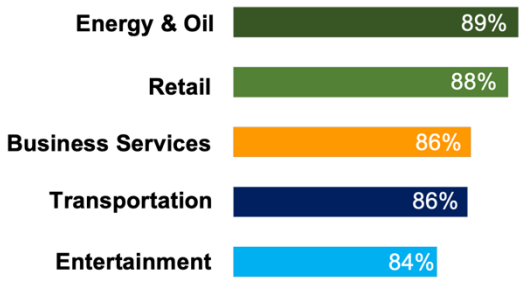
Price for $10m Cover now $175k for big firms in Oz

FINANCIAL REVIEW

Published September 2022

Cyber Insurance Coverage

89% of Energy firms "have Insurance for Ransoms"

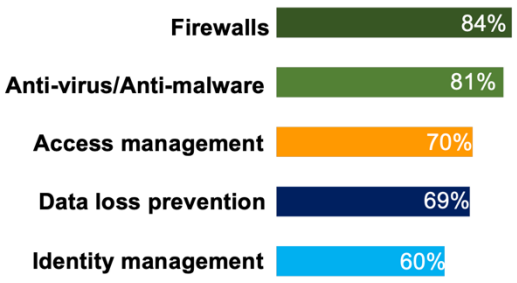


SOPHOS

Survey of 5,600 IT professionals
Published September 2022

Cyber Attack Protection

84% of orgs fully deploy firewalls to stop attacks



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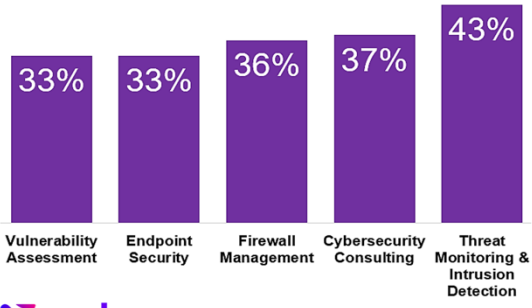
Cyber Security Services

Threat Monitoring & Intrusion Detection top at 43%



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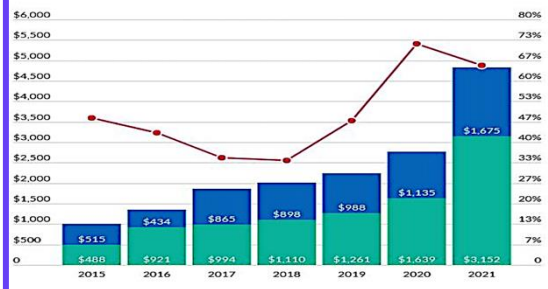
Cyber Insurance Market USA

$4.9bn paid by firms to Insurers who paid out 65%



FitchRatings

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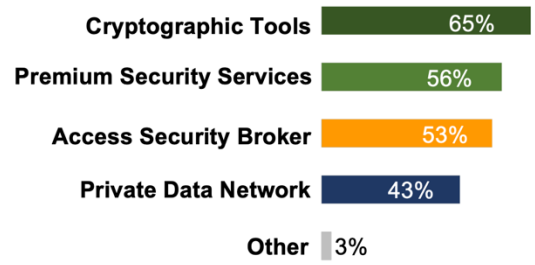
Cloud Protection Tools

65% say they use cryptographic tools for cloud data

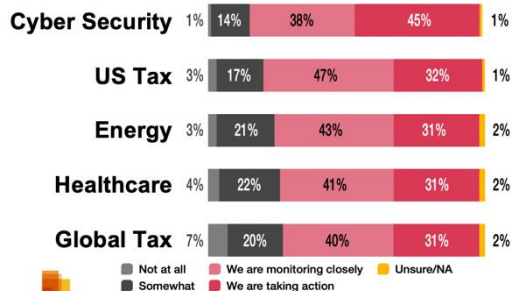


proofpoint.

Published September 2022

Cyber is #1 on Firms' Radars

45% of "taking action" on Cyber, vs 31% on Energy



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Interviews with 722 US execs
Published August 2022

Cyber Insights: *Cyber Security Investments*

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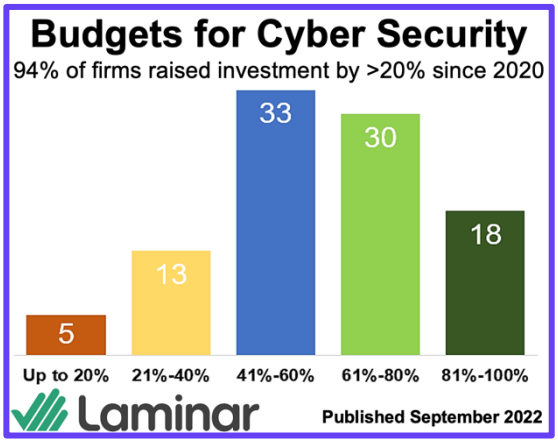

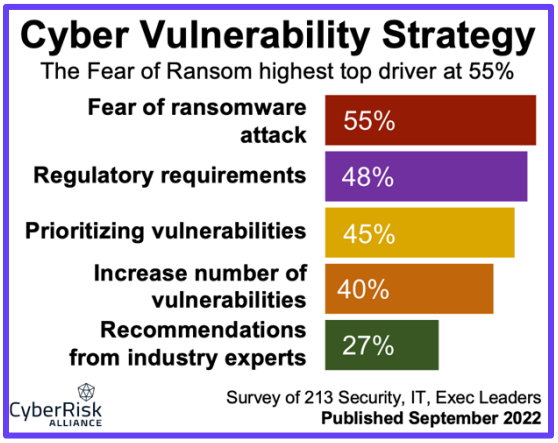

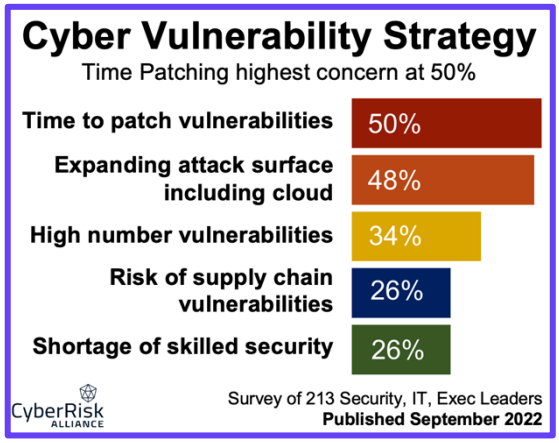

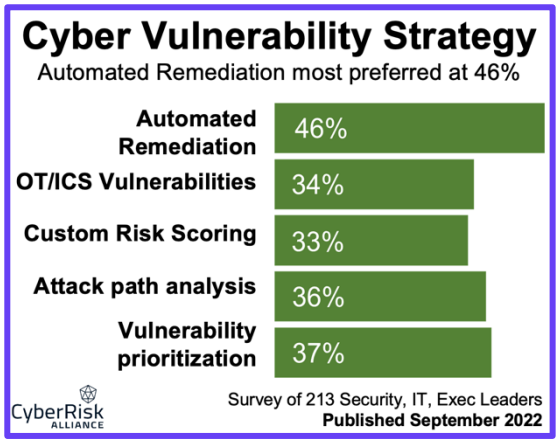

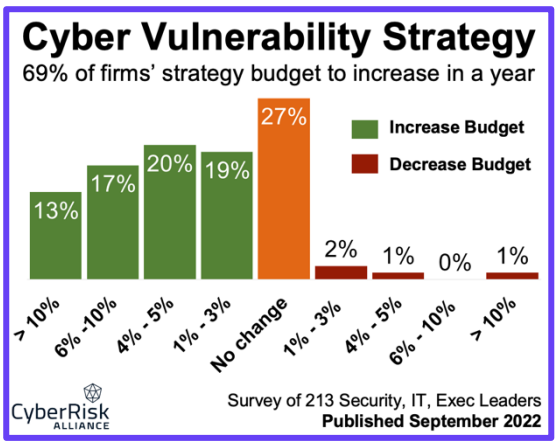

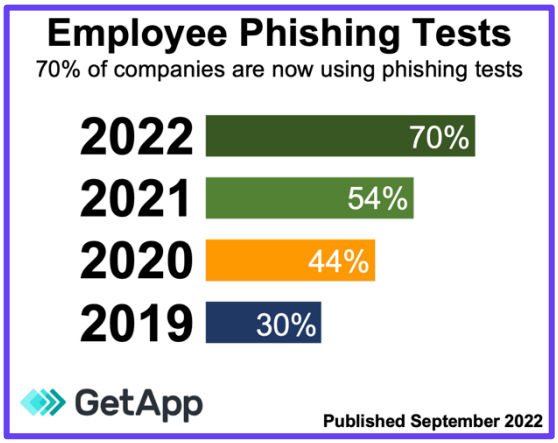

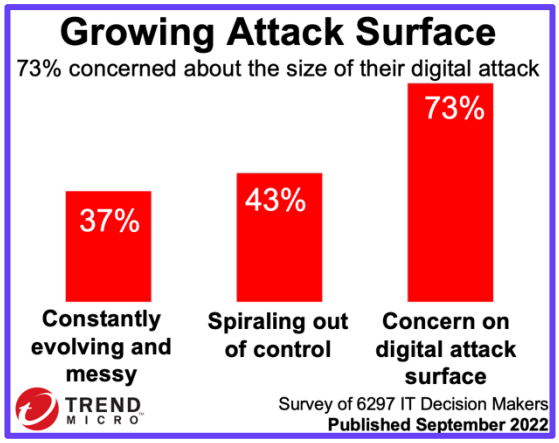

Cyber Insights: *People & Cyber Challenges*

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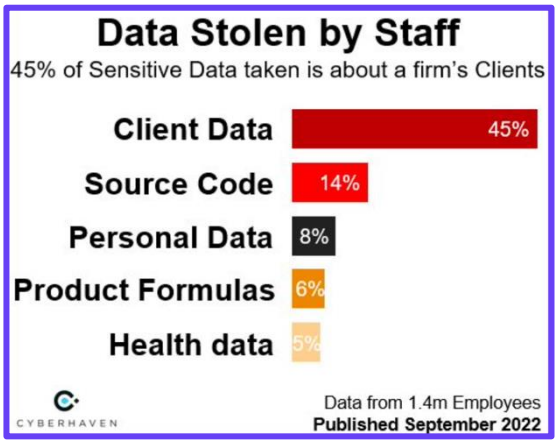

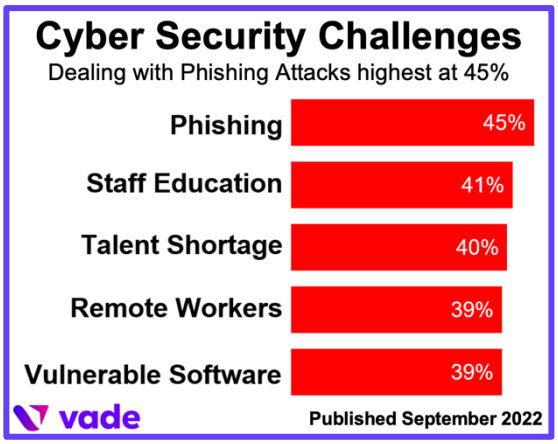

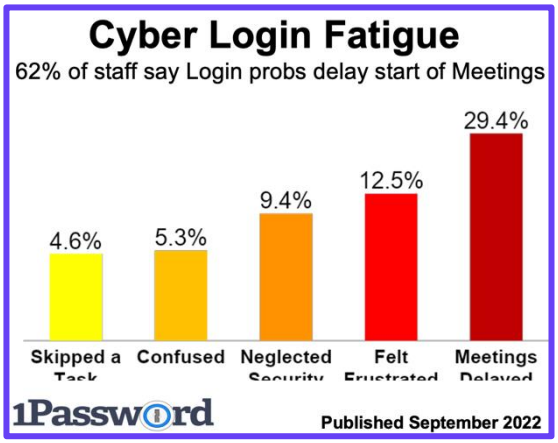

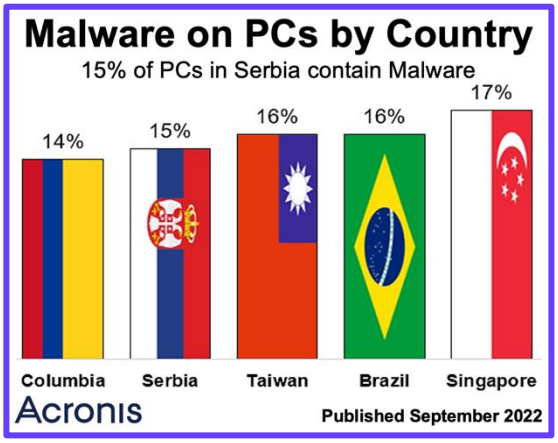

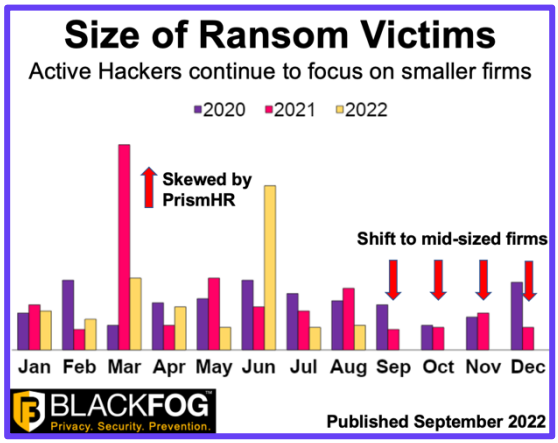

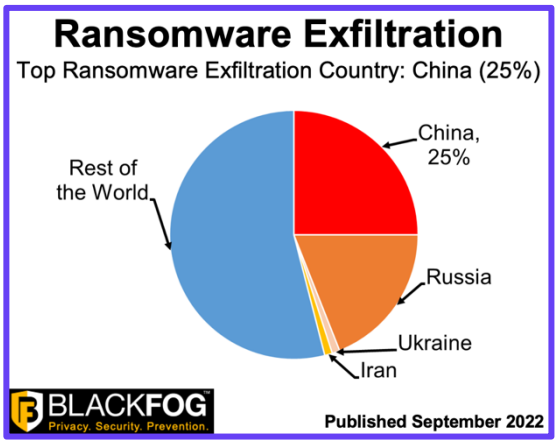

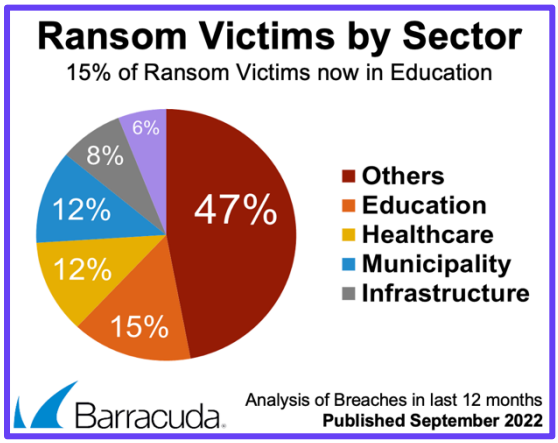

Cyber Insights: *Cyber Threats & Lures*

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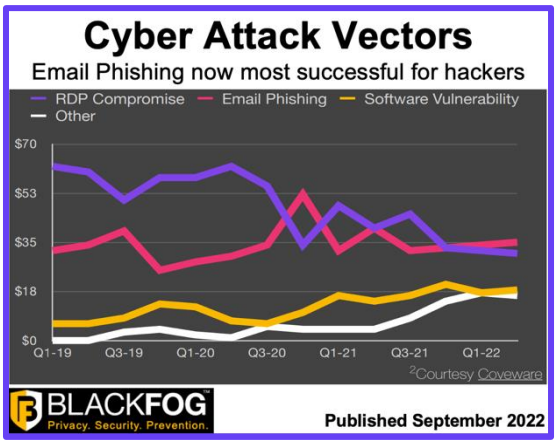

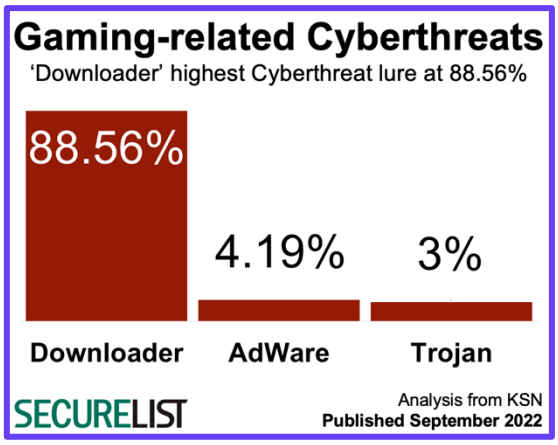

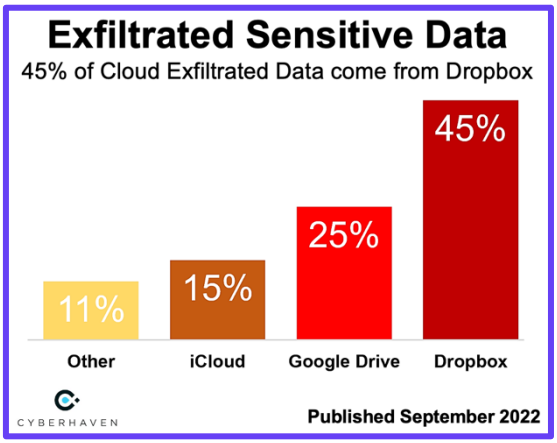

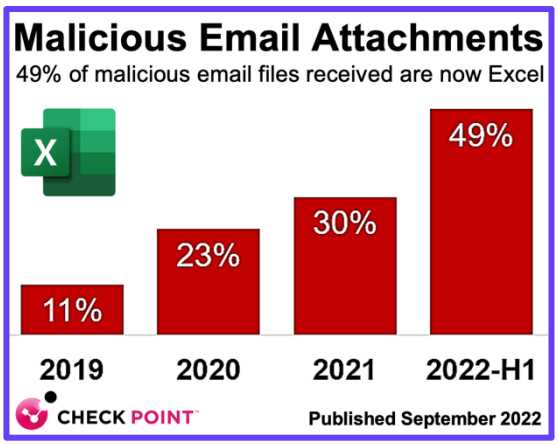

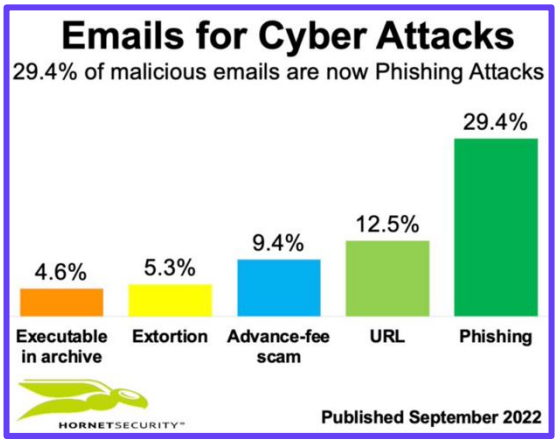

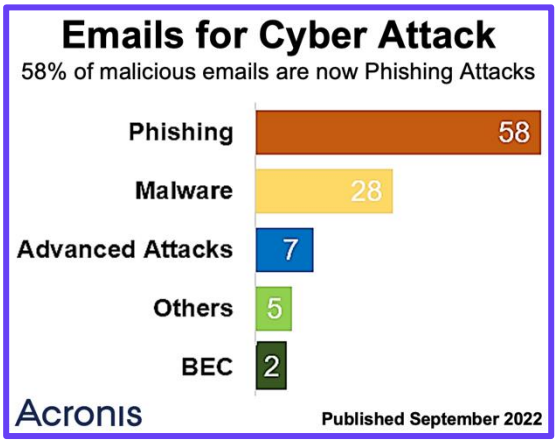

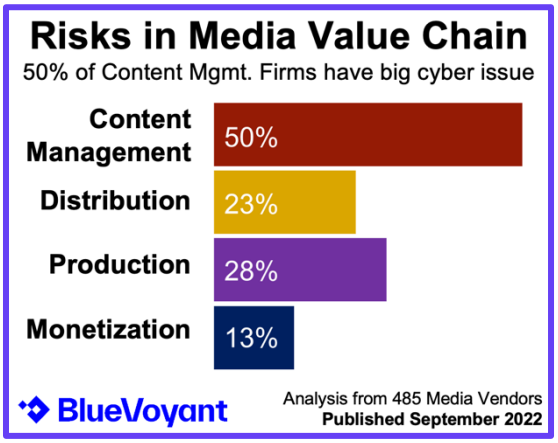

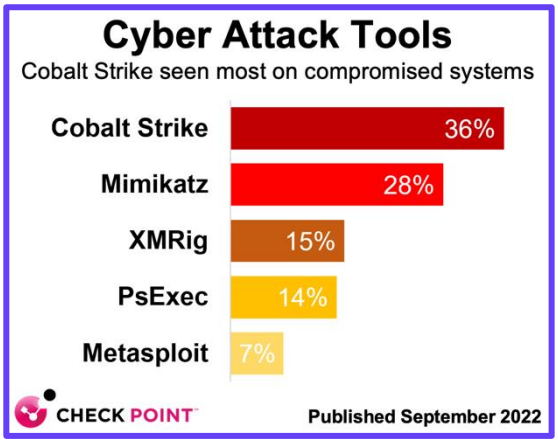

Cyber Insights: *Cloud Vulnerabilities*

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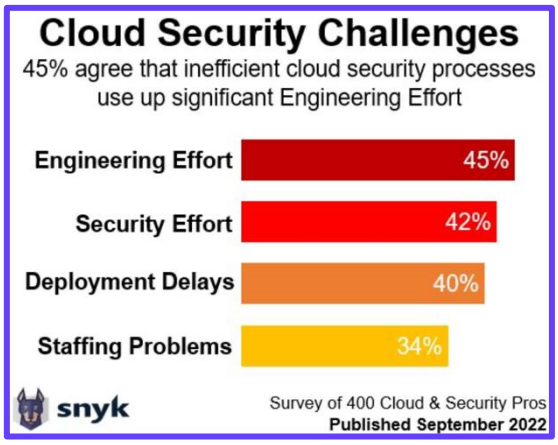

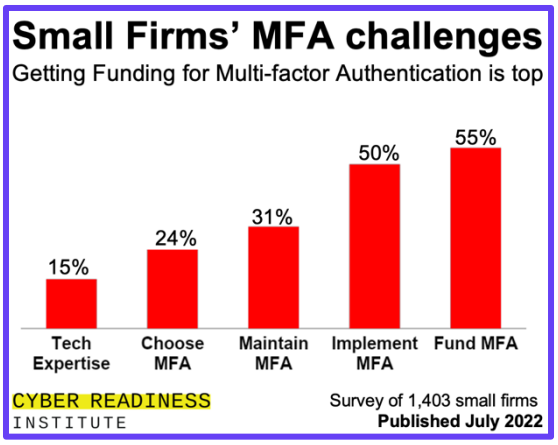

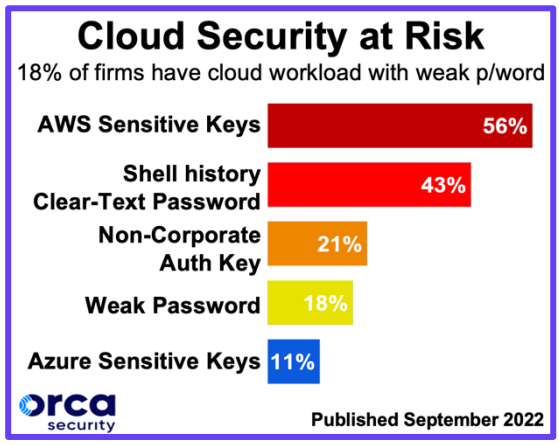

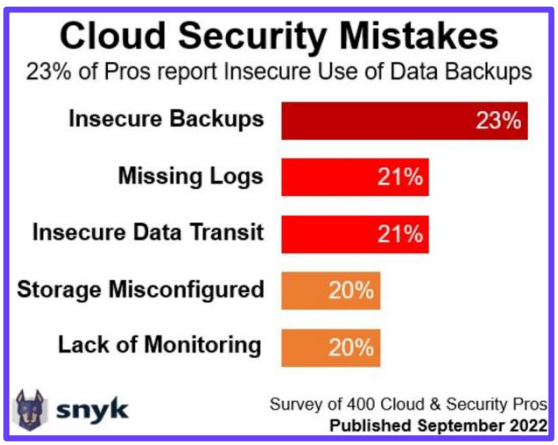

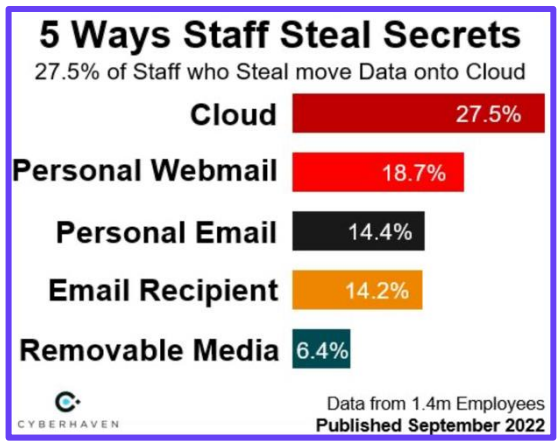

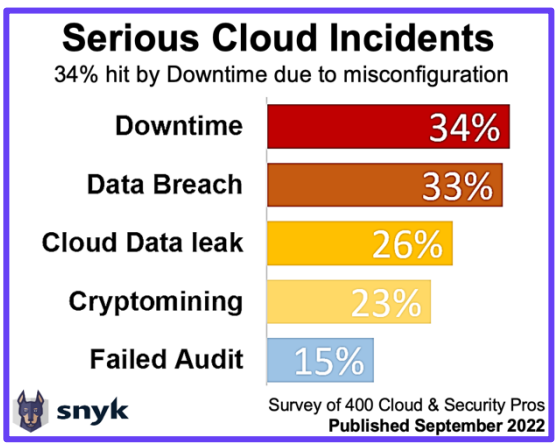

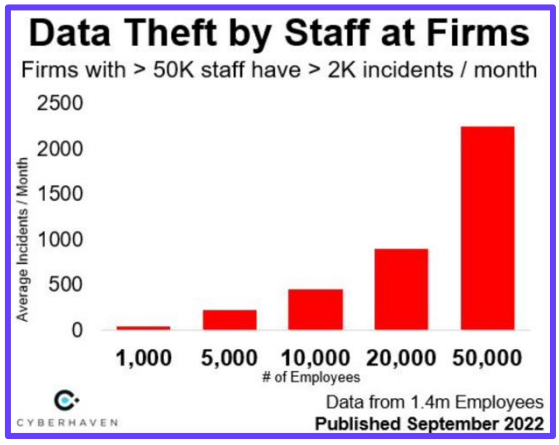

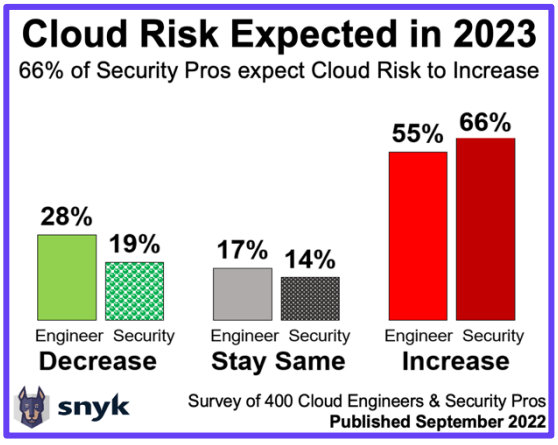

Cyber Insights: *Cyber Insurance & Costs*

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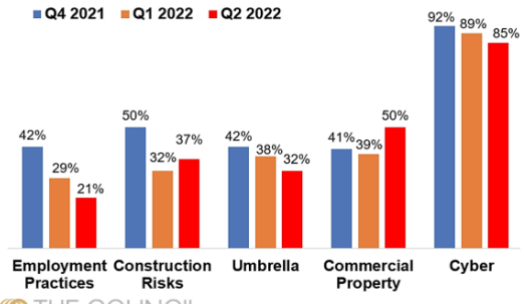
Cyber Insurance Demand Up

85% of Insurers & Brokers say Demand still rising



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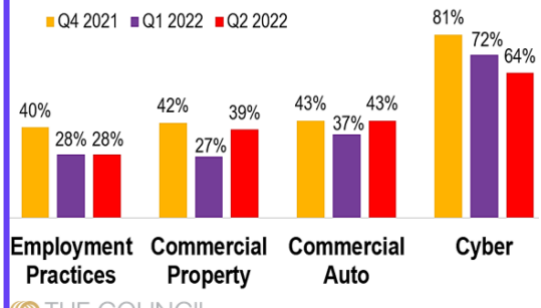
Cyber Insurance Prices Up

64% of Insurers and Brokers say Prices still rising



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Published August 2022

Cyber Insurance Purchased?

24% are unsure or does not have Cyber Insurance

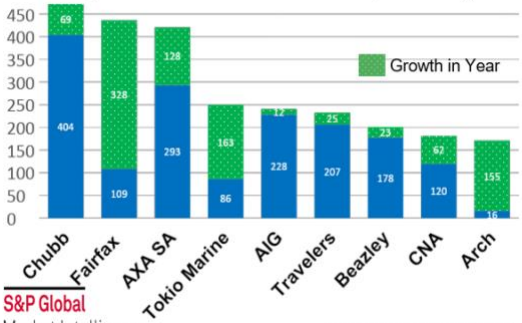
MENLO SECURITY

Survey of 505 InfoSec Leaders

Published August 2022

Cyber Insurance Leaders

Chubb's $473m Premiums in USA is up 17% in year

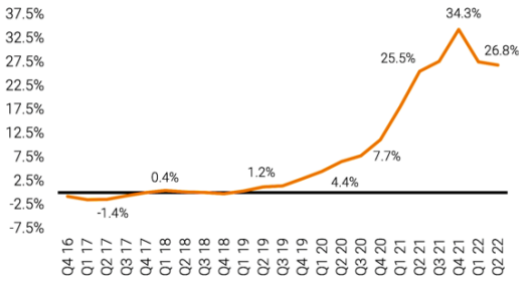


S&P Global Market Intelligence

Published August 2022

Cyber Insurance Prices Up

"Good" news as price rises in last quarter only 26%



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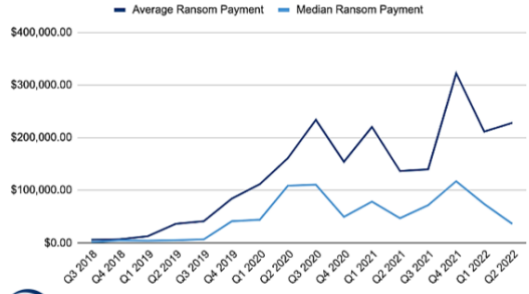
Typical Ransom Payments

Median Ransom actually Paid is about $30,000



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Average Ransom Payment

Size of each known payment +8% from Q1/22

Average known Payout =

USD $228,125

BLACKFOG Privacy. Security. Prevention.

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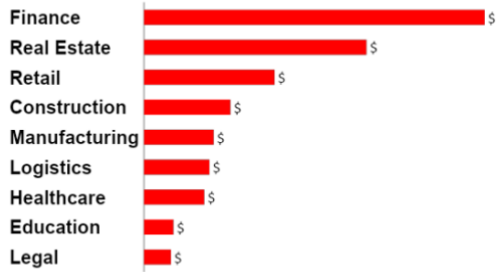
Typical Ransom Demands

Finance industry suffers $7.96m average demand



UNIT 42 BY PALO ALTO NETWORKS

Published August 2022

Cyber Insights: *Ransom Attacks*

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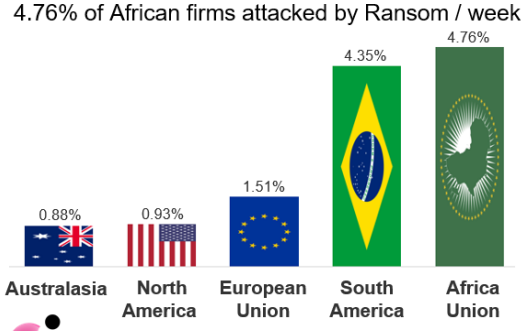
Ransom *Attacks* by Region

4.76% of African firms attacked by Ransom / week

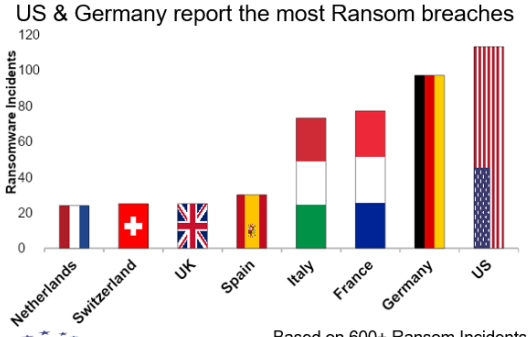


CHECK POINT

Published August 2022

Ransom *Reports* by Country

US & Germany report the most Ransom breaches



enisa European Network and Information Security Agency

Based on 600+ Ransom Incidents

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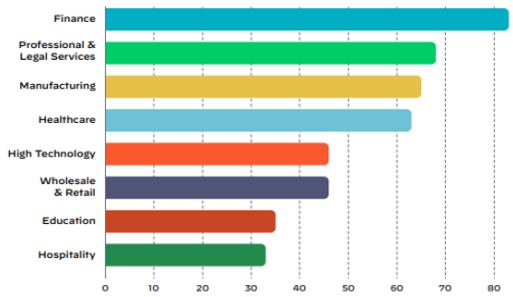
Ransom *Attacks* by Sector

Finance is the most targeted industry for hackers



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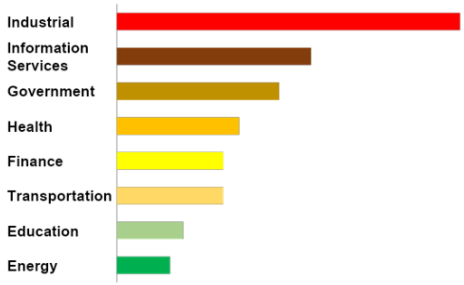
Ransom *Reports* by Sector

Industrial Sector most hit by ransomware incidences



enisa European Network and Information Security Agency

Based on 600+ Ransom Incidents

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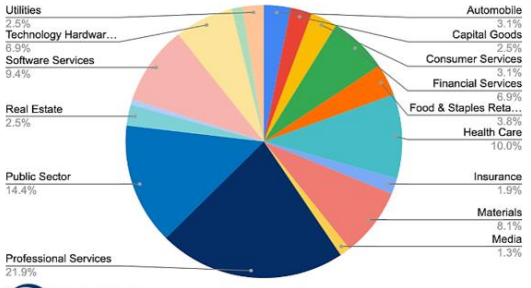
Ransom *Attacks* by Sector

Professional Services firms hit most frequently



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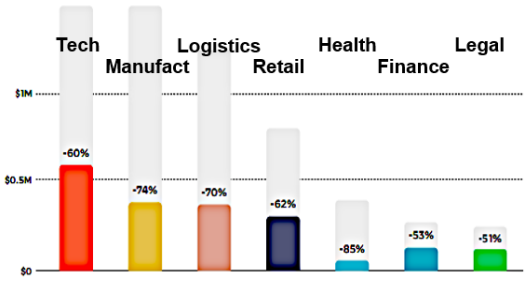
Ransom Demanded vs Payment

Tech Sector pays 40% of initial ransom demand



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Ransom Attack Response

Implement recovery plan is top mentioned response

#1 **Implement** Recovery Plan (45%)

#2 **Analyse** damage of attack (39%)

#3 Quarantine the **Endpoints** (37%)

#4 Inform all of the **Employees** (37%)

#5 Inform affected **Customers** (33%)

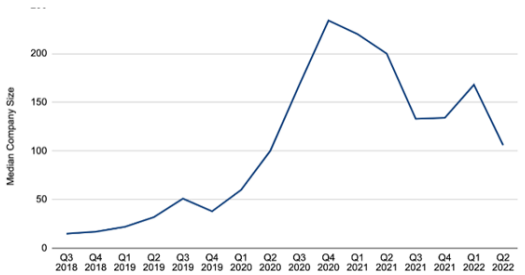
MENLO SECURITY

Survey of 505 InfoSec Leaders

Published August 2022

Size of Firms hit by Ransom

Typical Firm hit by Ransom now has about 110 staff



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Cyber Insights: *Costs and Finances*

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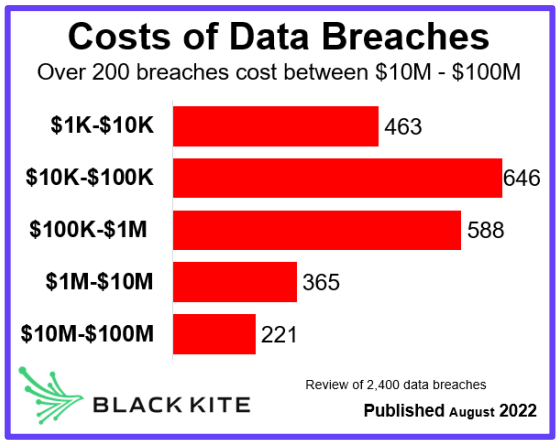
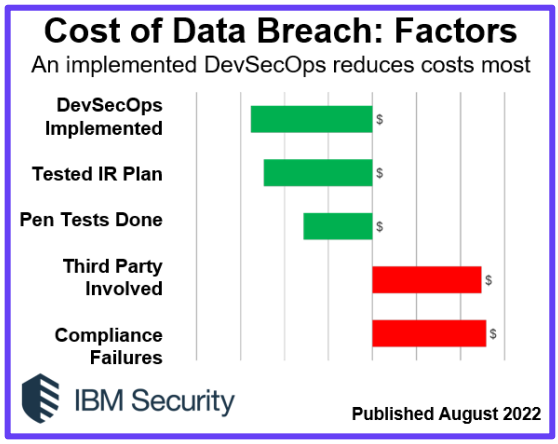
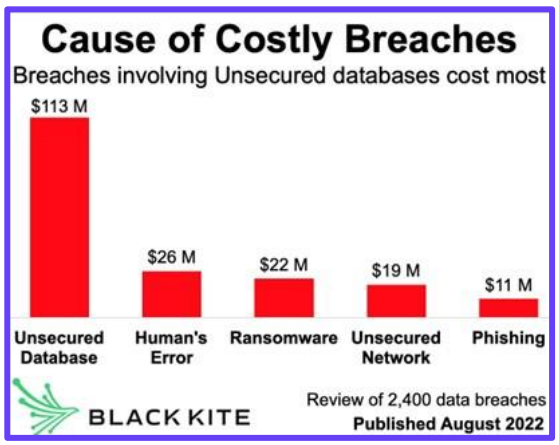
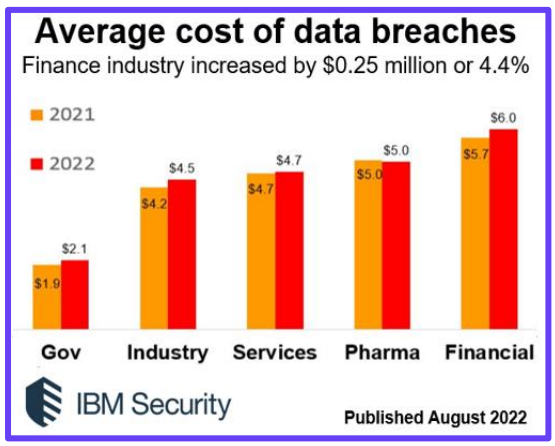
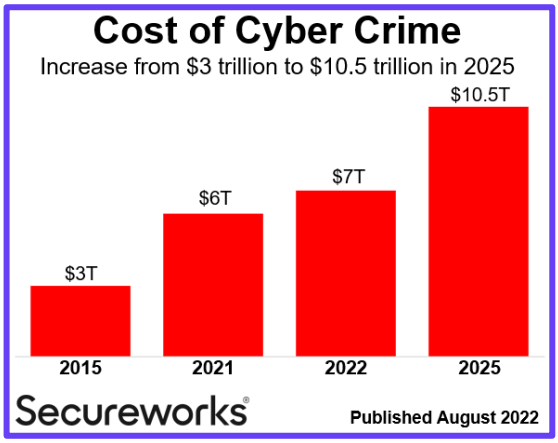
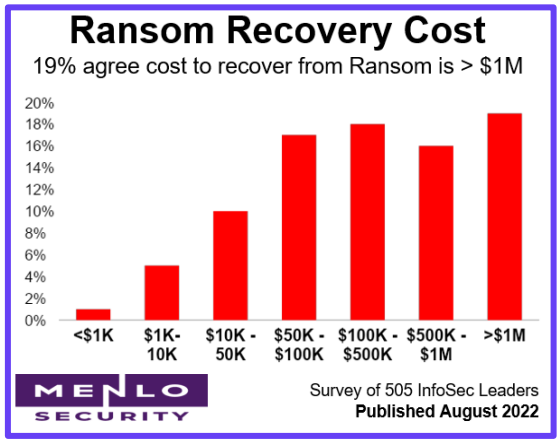


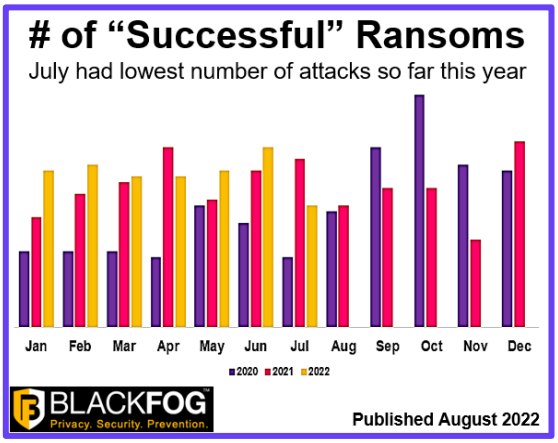


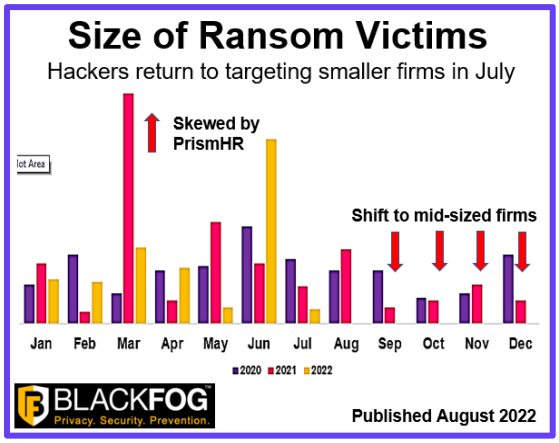










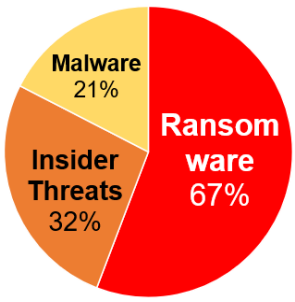


Cyber Insights: *Cyber & People*

Click each image to see each report in full. All were published in month to September 2022

Cyber Risk CISOs fear most

67% of CISOs say Ransomware is most significant



HEIDRICK & STRUGGLES

Survey of 327 CISOs
Published August 2022

The Weakest Link in Cyber

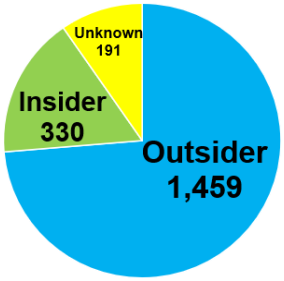
43% of InfoSec Leaders say Staff are weakest link

MENLO SECURITY

Survey of 505 InfoSec Leaders
Published August 2022

Who Causes Data Breaches

Almost 75% of breached files caused by Outsiders



FLASHPOINT

Published August 2022

Staff spot most Email Fraud

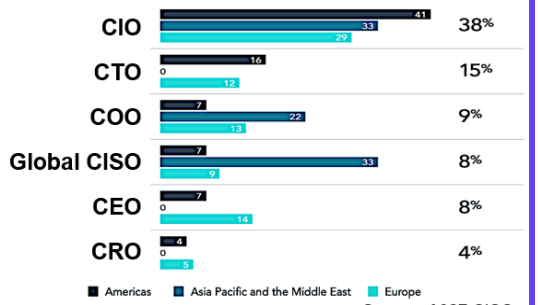
Most Employees are Highly Capable

SC MEDIA

Survey of 221 Professionals
Published August 2022

CISO Reporting Lines

38% of CISOs still report directly to the CIO



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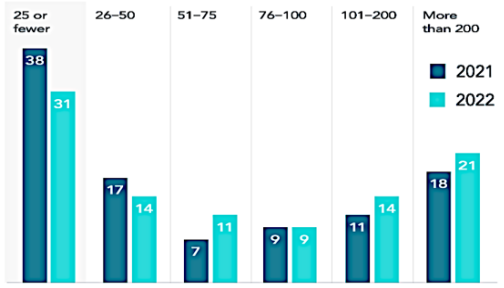
Survey of 327 CISOs
Published August 2022

Cyber Teams run by CISOs

21% of CISOs in the survey have over 200 staff



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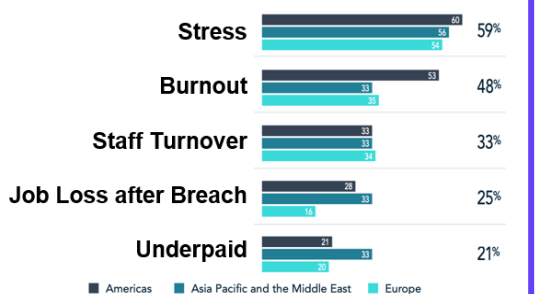
Survey of 327 CISOs
Published August 2022

CISO personal challenges

59% of CISOs report stress related to their role



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Survey of 327 CISOs
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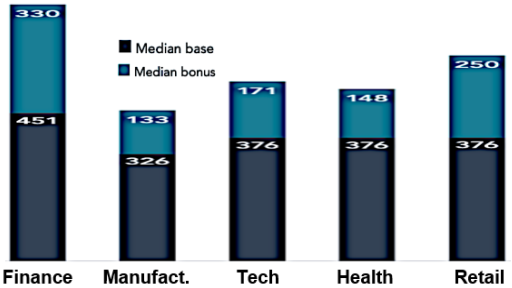
CISO Compensation

Finance CISOs paid 70% more than Manufacturing



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Survey of 327 CISOs
Published August 2022

Cyber Insights: *Ransom Vectors & Techniques*

Click each image to see each report in full. All were published in month to September 2022

How Firms hit by Ransom

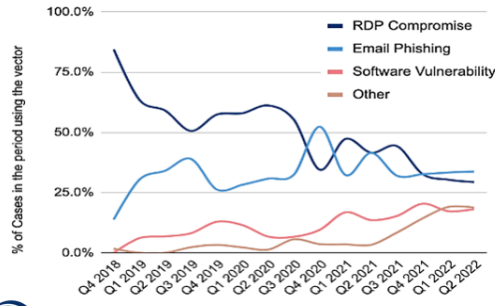
Phishing highest risk for ransom attack at 70%

The CISO Circuit by YL VENTURES

Published August 2022

How Firms hit by Ransom

Email Phishing is now the top attack vector

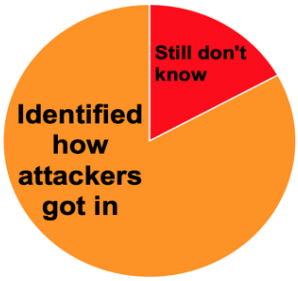


COVEWARE

Published August 2022

How Firms hit by Ransom

17% of victims still don't know how hackers got in



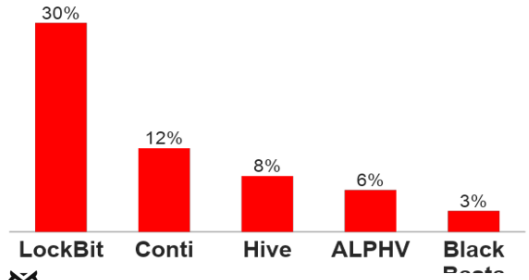
MENLO SECURITY

Survey of 505 InfoSec Leaders

Published August 2022

Most Pervasive Ransomware

Lockbit 2.0 now used in 30% of ransom attacks



INTEL471

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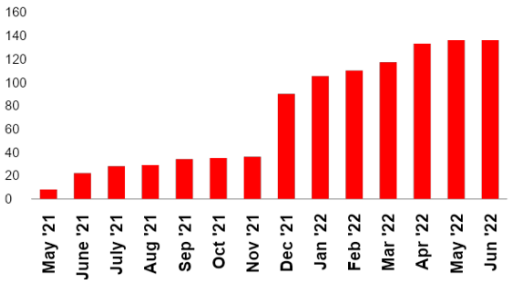
Data Stolen by Ransomware

Continuous increase in total Terabytes stolen



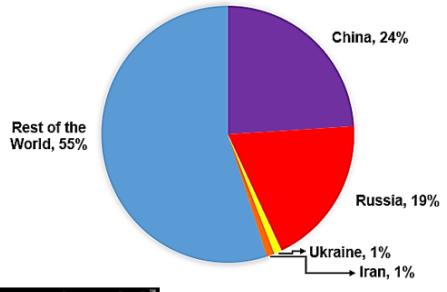
enisa European Network and Information Security Agency

Based on 600+ Ransom Incidents

Published August 2022

Data Stolen by Ransomware

Top Ransomware Exfiltration Country: China (24%)



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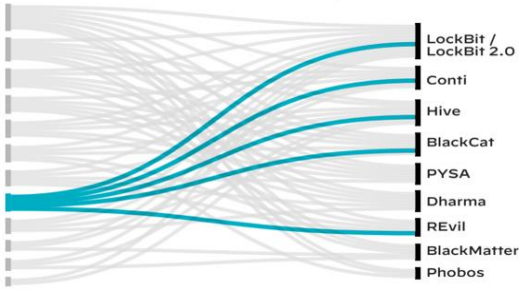
Ransom Gangs vs Finance

Finance & Insurance hit most by LockBit & Conti



UNIT 42 BY PALO ALTO NETWORKS

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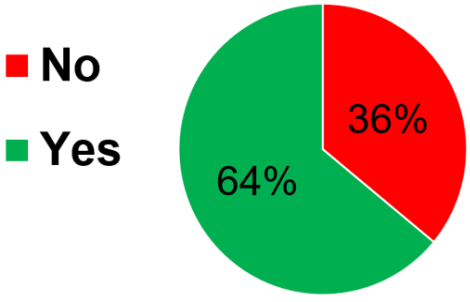
Ransomware Recovery

64% of firms implements a Ransom Recovery plan



The CISO Circuit by YL VENTURES

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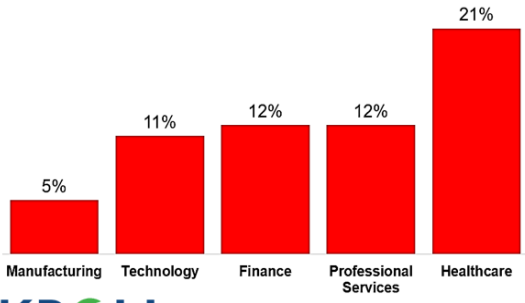
Cyber Insights: *Healthcare Attacks*

Click each image to see each report in full. All were published in month to September 2022

Most Targeted Industries

Healthcare most targeted at 21%, a 90% increase



KROLL

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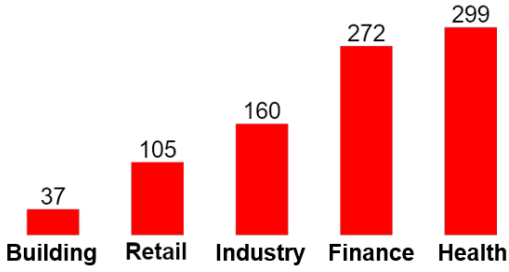
Data Breaches by Sector

Health Care now reports the most data breaches

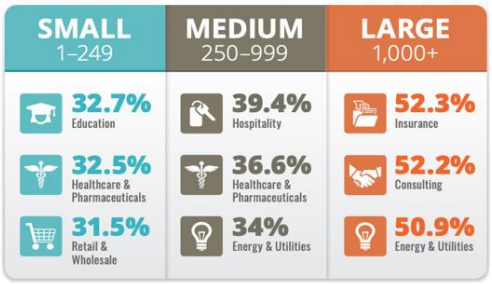


FLASHPOINT

Published August 2022

Cyber Risk by Sector

Education, Hospitality & Insurance(!) firms at risk



KnowBe4 Human error. Conquered.

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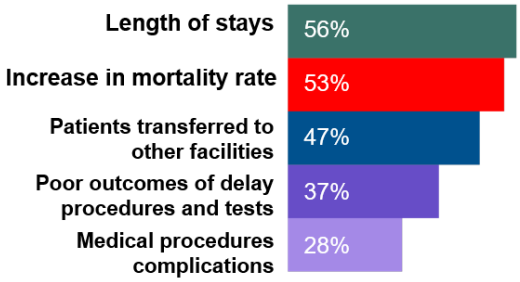
Cyber Attacks on Hospitals

53% report "increased mortality" from worst attacks

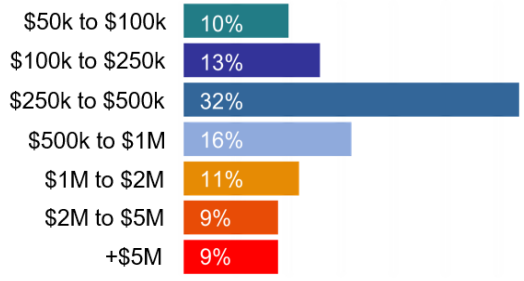


Cynerio

Survey of 516 Health Leaders in USA
Published August 2022

Hospital Ransom Demands

45% of Ransom Demands to Hospitals are > $500k



Cynerio

Survey of 516 Health Leaders in USA
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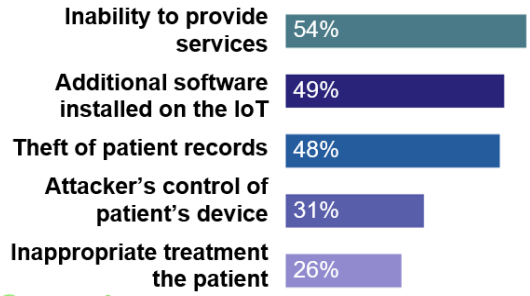
Cyber vs Medical Devices

48% of Medical Device breaches leads to data theft



Cynerio

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Ransom Payments in Health

34% of respondents in the Health Sector have paid

Cynerio

Survey of 516 Health Leaders in USA
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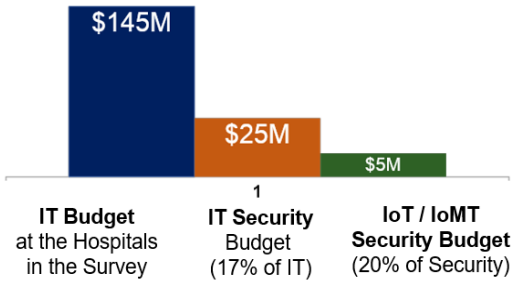
Iot/IoMT Budget Allocation

20% of Security Budget Spent on IoT/IoMT > $5M



Cynerio

Survey of 516 Health Leaders in USA
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Cyber Insights: *Cloud Security*

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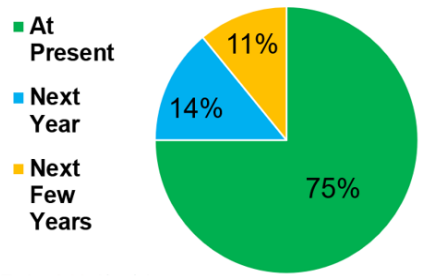
Ransomware in the Cloud

75% believe that ransomware exists in the cloud

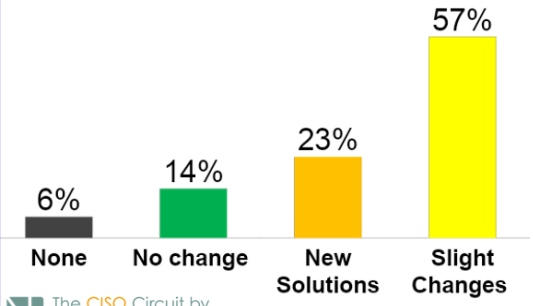


The CISO Circuit by YL VENTURES

Published August 2022

Defence vs Cloud Ransoms

57% believe slight solution changes are needed



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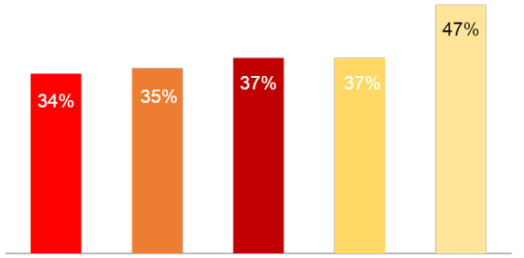
Cyber Attacks on Clouds

47% of successful attacks involve Data Exfiltration



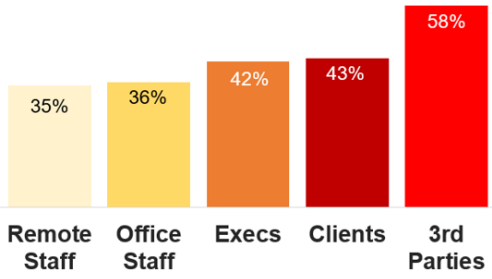
proofpoint.

Survey of 960 IT Professionals

Published August 2022

Cyber Attacks on Clouds

58% of successful attacks involve 3rd Parties



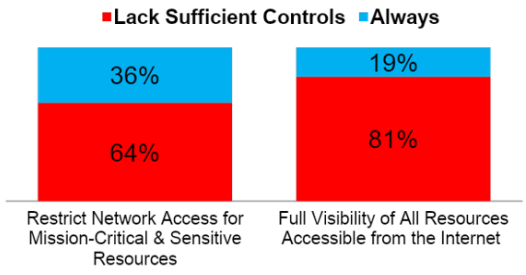
proofpoint.

Survey of 960 IT Professionals

Published August 2022

Visibility of Cloud Security

81% of firms lack visibility of internet-facing assets



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Survey of 326 firms in N. America

Published August 2022

Controls for Cloud Security

Basic Controls for Managing Access Permissions

#1 = Policy checking with business functions

#2 = Permissions granted just-in-time basis

#3 = Automated detection of accessibility

#4 = Least Privilege Method access grant

#5 = Accessibility & Resources Visibility

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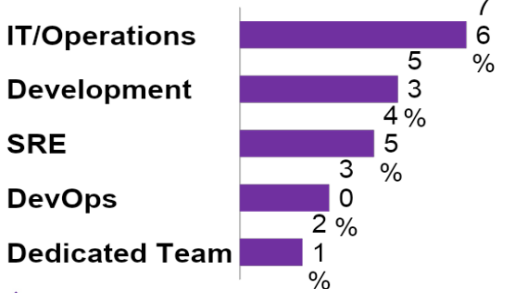
Survey of 326 firms in N. America

Published August 2022

Who owns Cloud Security

21% of firms have Dedicated Cloud Security Team



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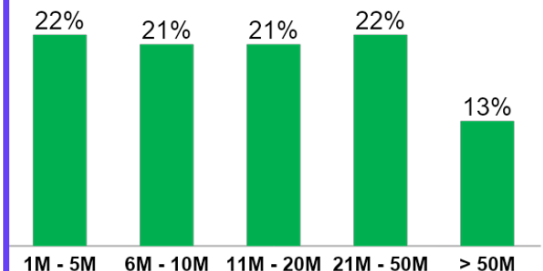
Survey of 326 firms in N. America

Published August 2022

Spend on Cloud Security

56% of large firms spend over $10M on CloudSec



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Survey of 326 firms in N. America

Published August 2022

Cyber Insights: *Ransomware*

Click each image to see each report in full. All were published in month to September 2022

Ransom Victims by Sector

Education & Government still most frequent in July

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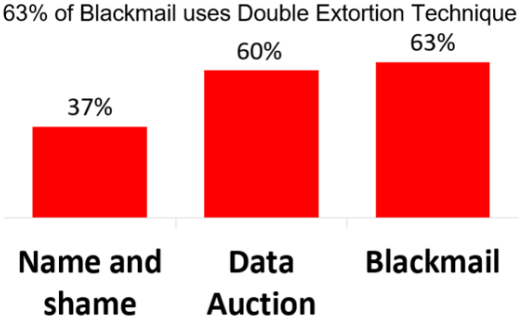
Top Ransomware Methods

63% of Blackmail uses Double Extortion Technique



vmware

Survey of 125 Cyber Professionals

Published August 2022

Top Ransomware Variants

BlackCat is now the most common ransom variant

Rank	Ransomware Type	Market Share %
1	BlackCat	16.9%
2	Lockbit 2.0	13.1%
3	Hive	6.3%
4	Quantum	5.6%
4	Conti V2	5.6%
5	Phobos	5%
5	Black Basta	5%
5	AvosLocker	5%

COVEWARE

Published August 2022

Ransomware Victims

Previously Breached firms most likely future victims

#1 = Suffered a past data breach

#2 = Out of date systems

#3 = Susceptibility to phishing

#4 = Publicly visible critical ports

#5 = Botnet infection

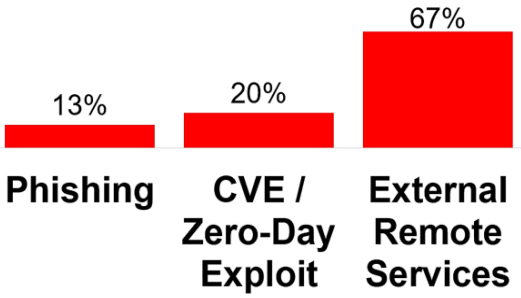
BLACK KITE

Review of 2,400 data breaches

Published August 2022

Initial Access for Ransom

67% of Threat actors use External Remote Services



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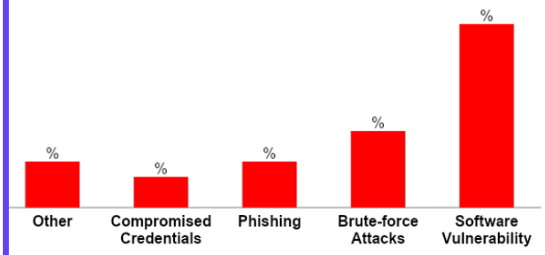
Initial Access for Ransomware

48% of initial access by Ransomware is via S/W



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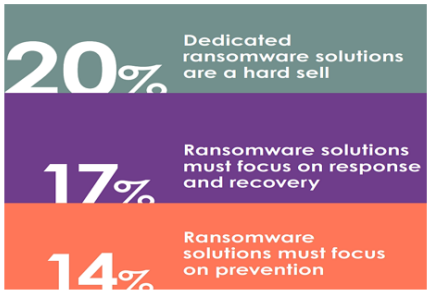
Ransomware Solutions 2022

20% believe Point Ransom Solutions impractical



The CISO Circuit by YL VENTURES

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Protection against Ransom

Firewalls are most trusted tool against cyber threat

#1 Firewalls (74%)

#2 Network perimeter strength (66%)

#3 Phishing protection (62%)

#4 Mobile device protection (61%)

#5 Endpoint protection (59%)

MENLO SECURITY

Survey of 505 InfoSec Leaders

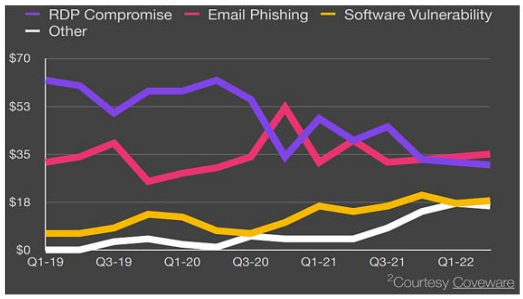
Published August 2022

Cyber Insights: *Attacks & Vulnerabilities*

Click each image to see each report in full. All were published in month to September 2022

Cyber Attack Vectors

Email Phishing still most successful for hackers



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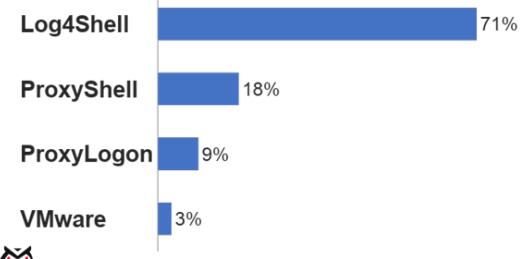
Vulnerabilities Hackers Love

"Most Mentioned" in Bad Actor chats = Log4Shell

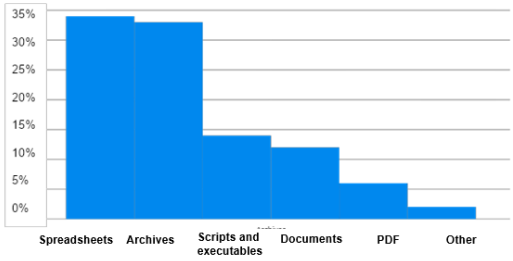


INTEL471

Published August 2022

Top Malware File Types now

34% now spreadsheet (eg XLS) & Archive (eg ZIP)



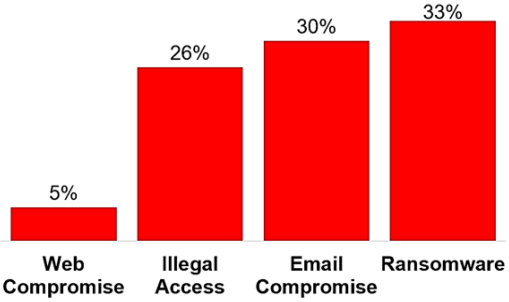
HP WOLF SECURITY

Analyzed by HP Wolf Security Experts

Published August 2022

Top Threat Incident Types

Ransomware poses the biggest threat at 33%

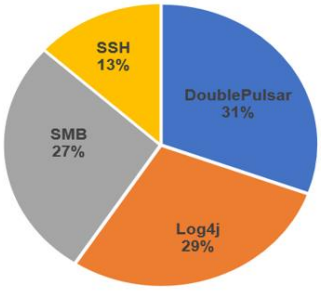


KROLL

Published August 2022

Top Witnessed Exploits

30% of exploits come from DoublePulsar

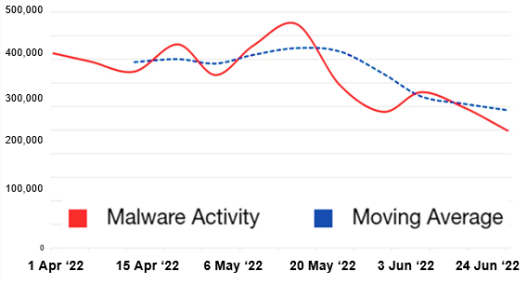


nuspire

Published August 2022

Malware Detection

Malware detected by Nuspire falling in latest data

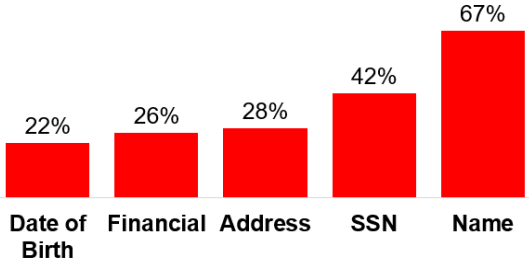


nuspire

Published August 2022

What Data is most Breached

22% of Breached Files hold victim's Date of Birth

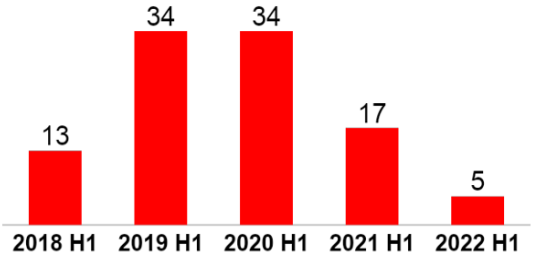


FLASHPOINT

Published August 2022

Mega Breaches: Great News

Only 5 new breaches of >1M records in H1 2022

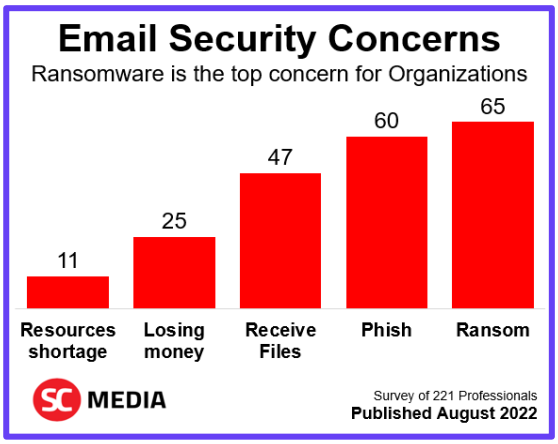


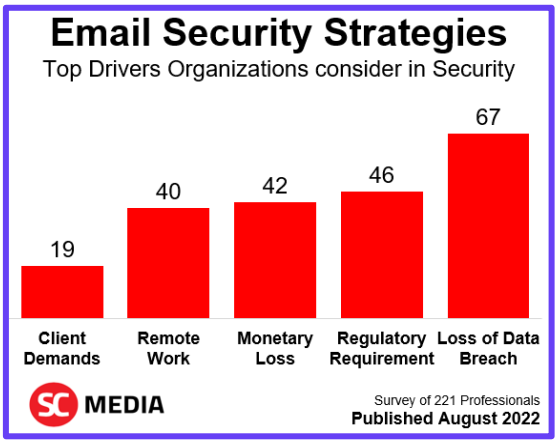
FLASHPOINT

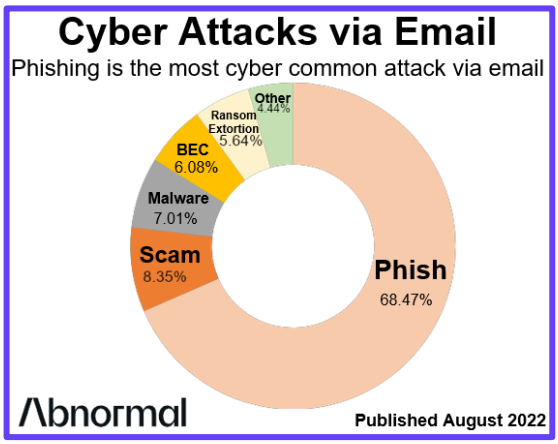
Published August 2022

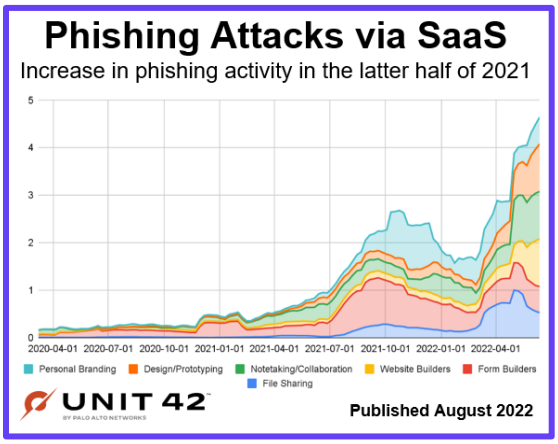
Cyber Insights: *Phish & Email Attacks*

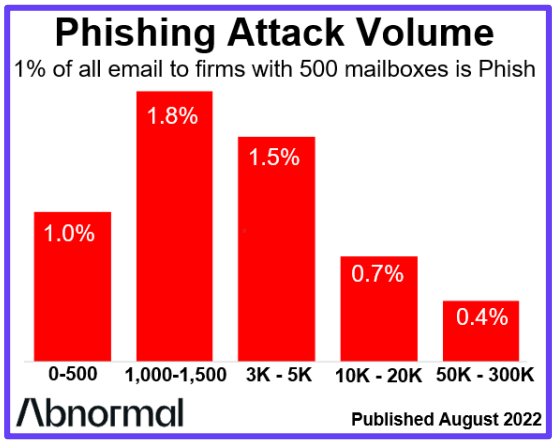
Click each image to see each report in full. All were published in month to September 2022

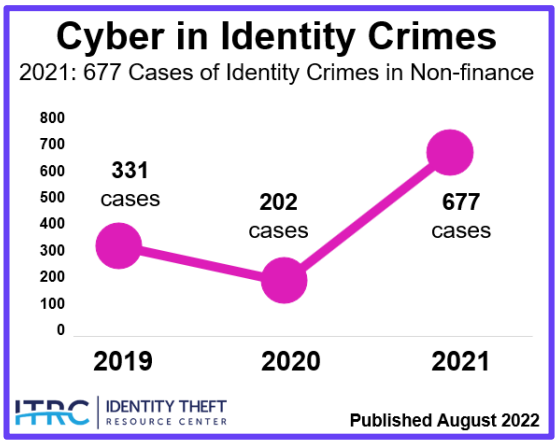


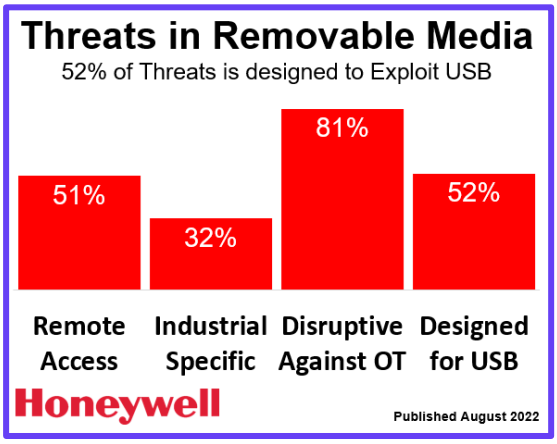










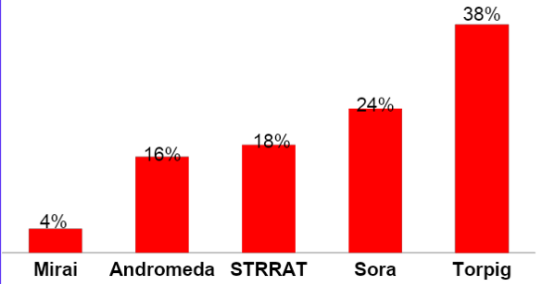


Cyber Insights: *Practices & Activities*

Click each image to see each report in full. All were published in month to September 2022

Highest Botnet Activities

38% of Botnets now observed are Torpig



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Risk Awareness Practices

Best practices for staff cyber security awareness

#1 = Use real-world Attack Methods

#2 = Don't do this alone

#3 = Don't try to train on everything

#4 = Make it relevant

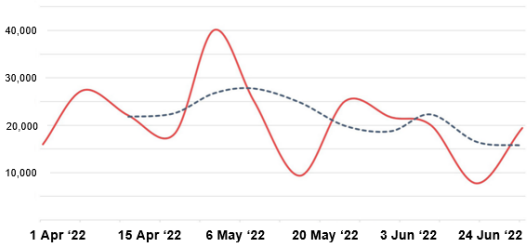
#5 = Treat programme like marketing

KnowBe4 Human error. Conquered.

Published August 2022

STRRAT Botnet Activity

Highest Level of Activity in the month of May



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Threat Intelligence TIBER EU

Purple Teaming Best Practices

EUROPEAN CENTRAL BANK EUROSYSTEM

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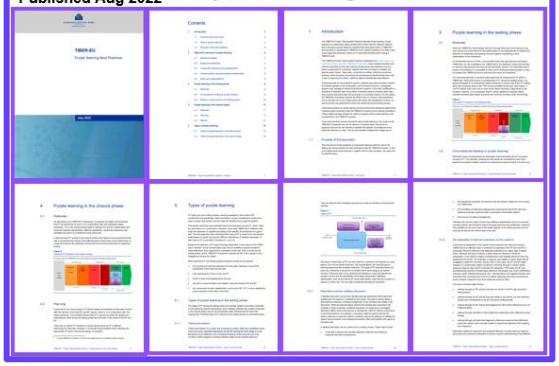

Cyber Supply Chain Resilience

New Version Launched

CSA SINGAPORE

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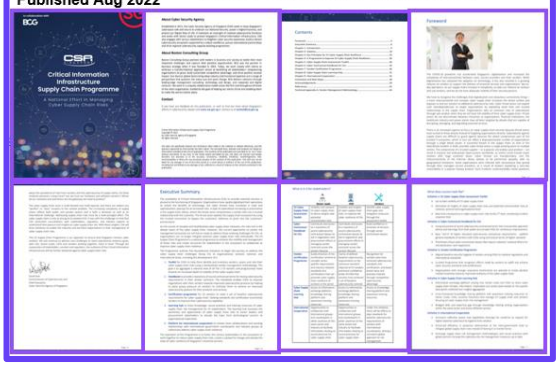
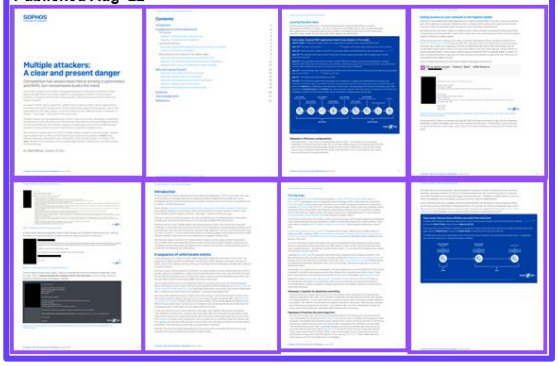


Latest Ransomware Trend

Sophos X-Ops Active Adversary

SOPHOS Cybersecurity delivered

Published Aug '22



Metaverse or Metaworse?

Cyber Threats in Metaverse

TREND MICRO

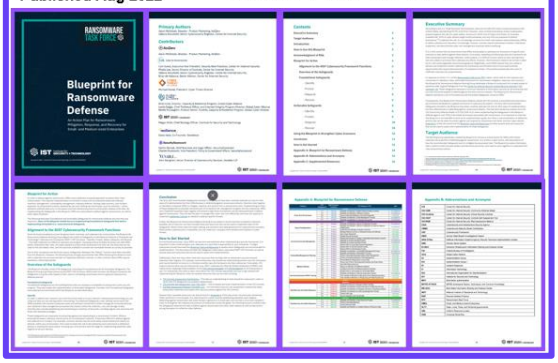
Published Aug 2022

Ransom Defense Blueprint

Action Plan for SMEs

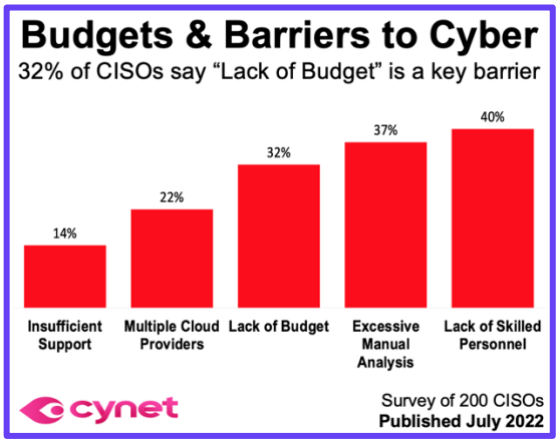
IST Institute for SECURITY + TECHNOLOGY

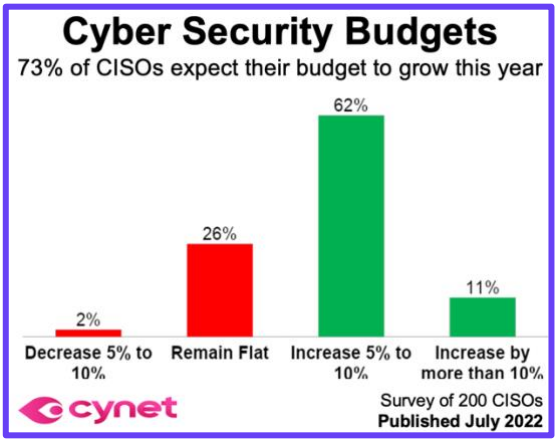
Published Aug 2022

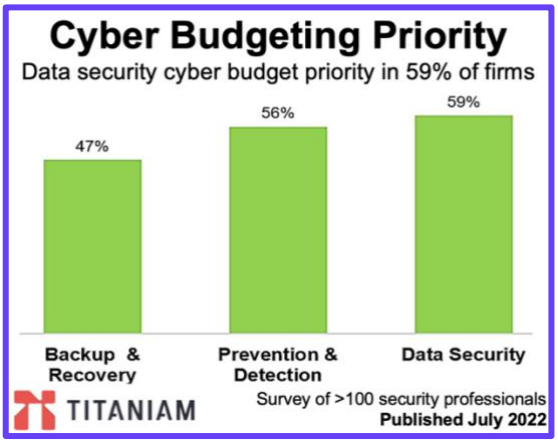


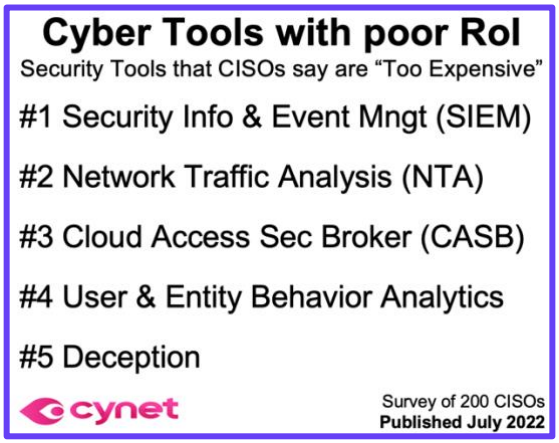
Cyber Insights: *Cyber Budgets & RoI*

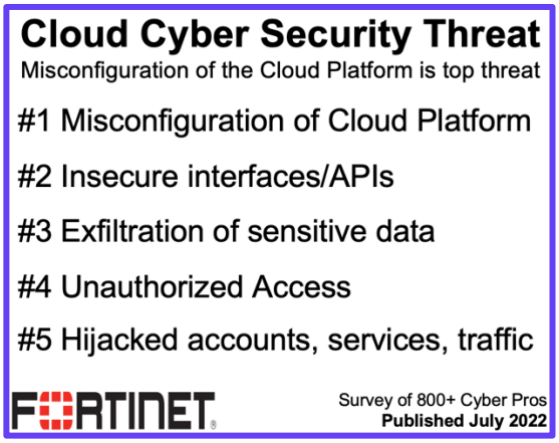
Click each image to see each report in full. All were published in month to August 2022

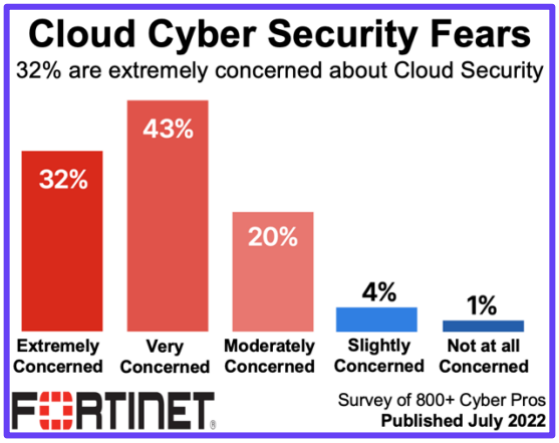


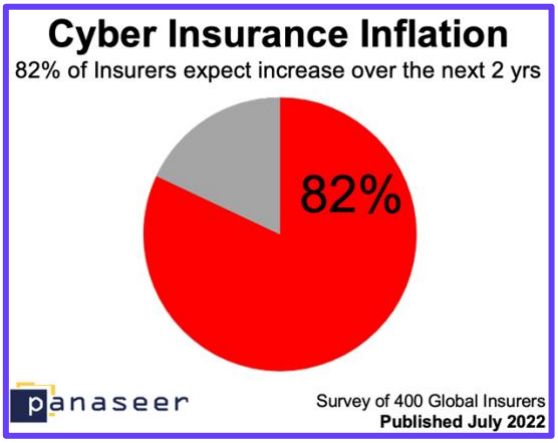


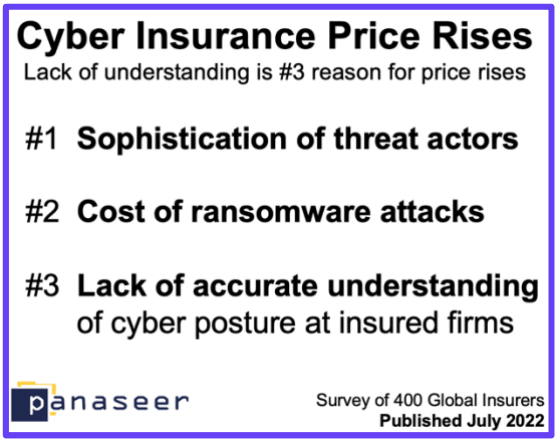










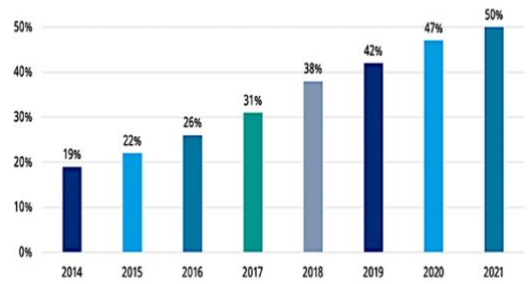


Cyber Insights: *Cyber Insurance*

Click each image to see each report in full. All were published in month to August 2022

Cyber Insurance Popularity

50% of insured firms in USA now buy Cyber cover

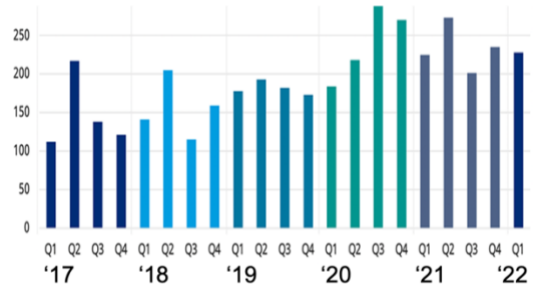


Marsh

Published July 2022

Cyber Insurance # of Claims

of Claims on Cyber Insurance in USA falling

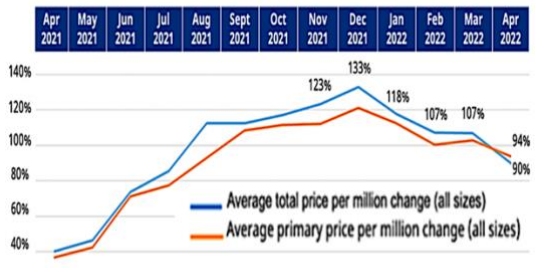


Marsh

Published July 2022

Cyber Insurance Inflation

Annual inflation in USA has fallen to 90% price rise



Marsh

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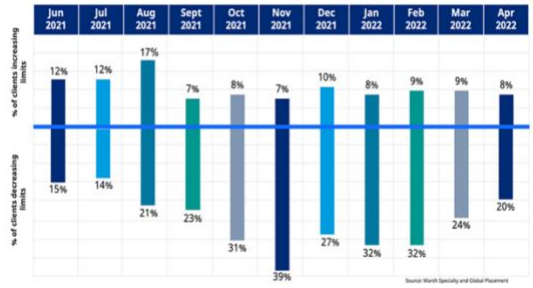
Cyber Insurance Cover

Only 20% reduced their firms' limits in latest survey



Marsh

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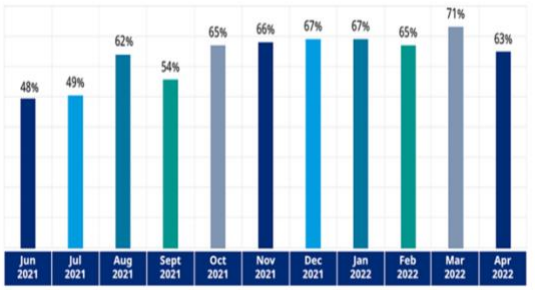
Cyber Insurance Retentions

63% of insured are retaining more risk themselves



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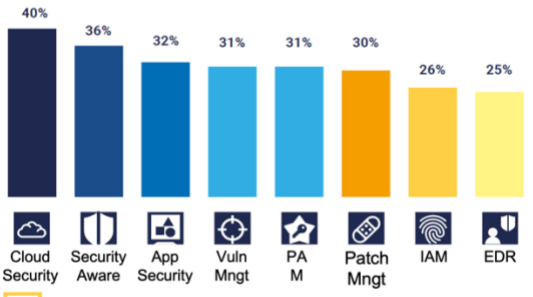
Cyber Underwriting

40% of Insurers agree Cloud Security is important



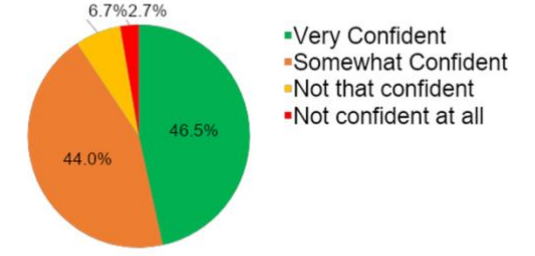
panaseer

Survey of 400 Global Insurers

Published July 2022

Cyber Underwriting

46.5% very confident in their underwriting process



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Survey of 400 Global Insurers

Published July 2022

Cyber Insurance Changes

#1 change by Insurers = "require more evidence"

#1 = **Require detailed evidence** of security posture at customers

#2 = **Reduce # of insured firms** to limit risk exposure

#3 = **Require more transparency** from firms about security metrics

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Survey of 400 Global Insurers

Published July 2022

Cyber Insights: *Ransomware*

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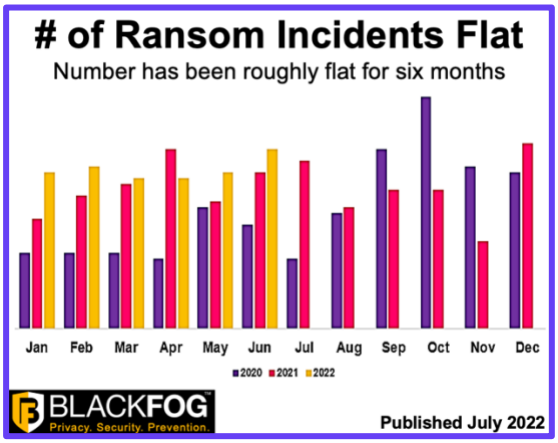

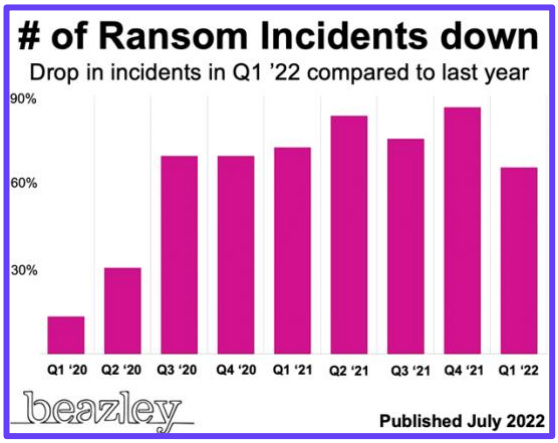

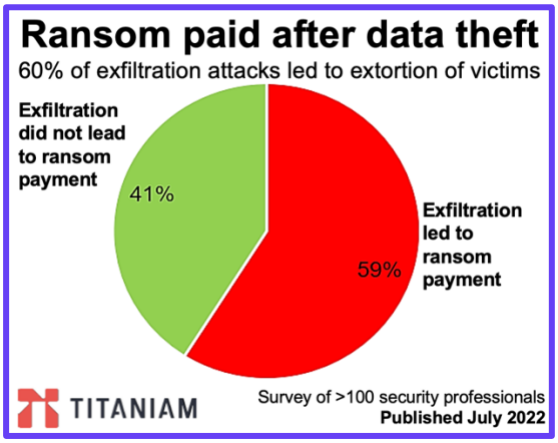

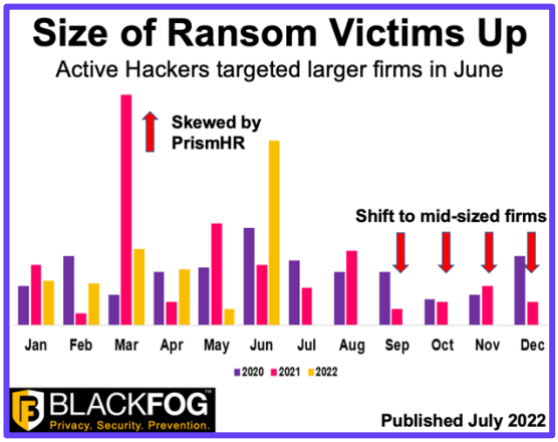

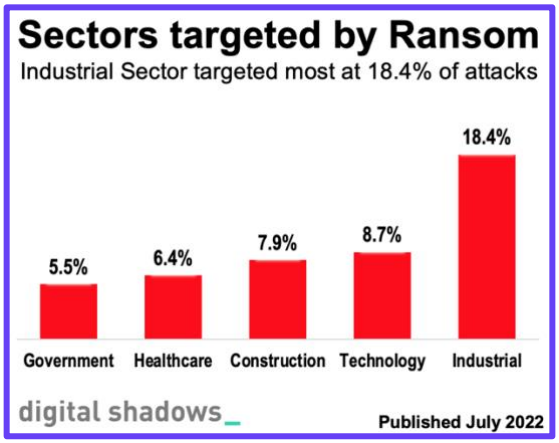

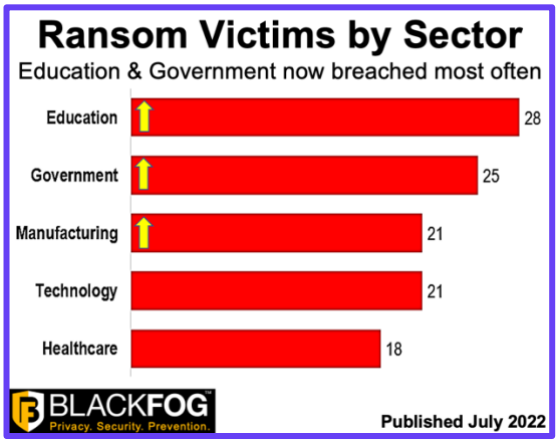

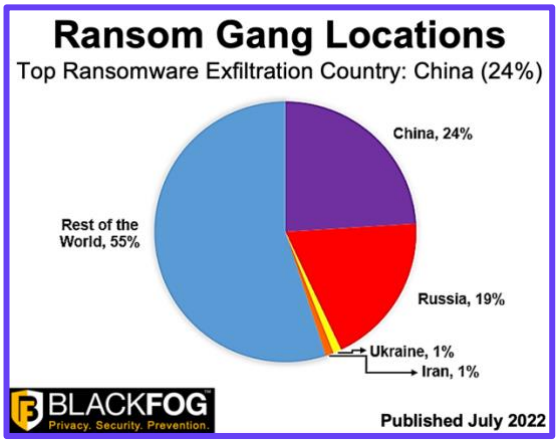

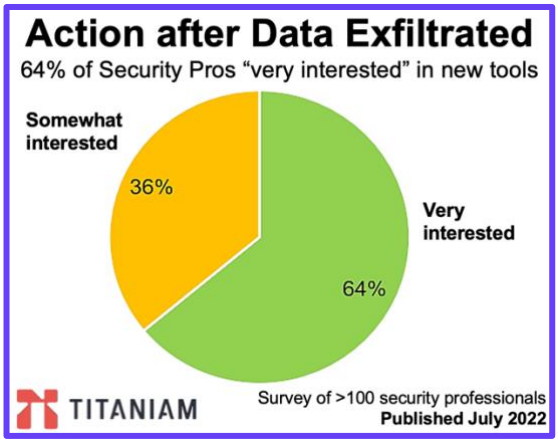

Cyber Insights: *Phishing*

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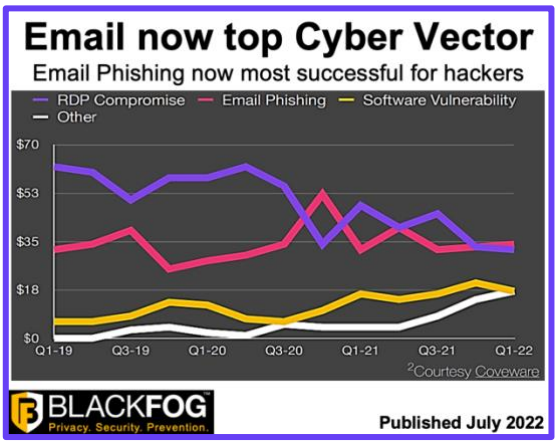
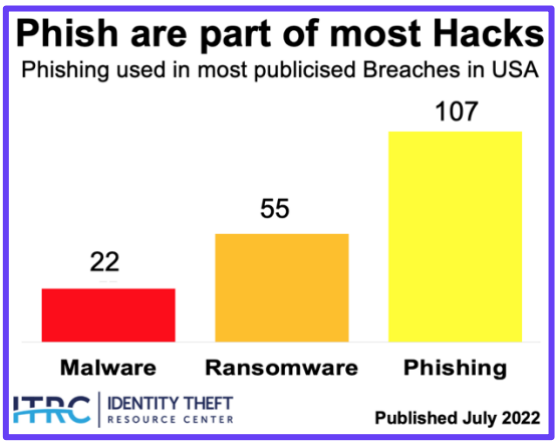
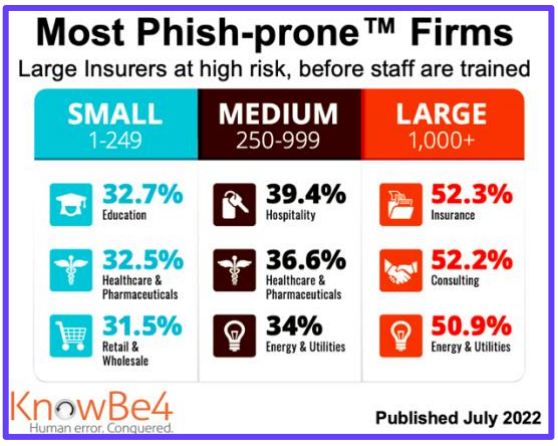
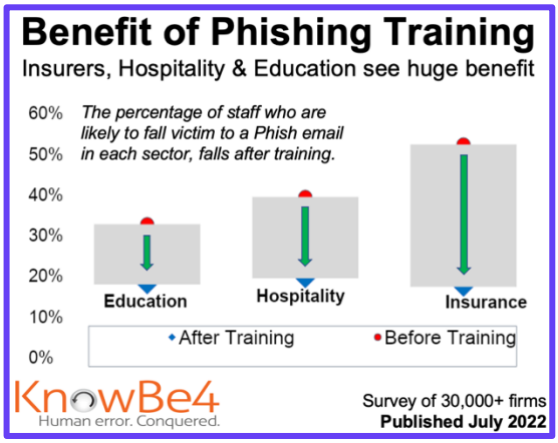
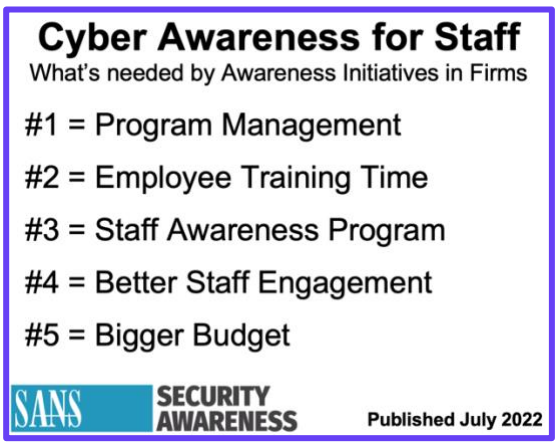
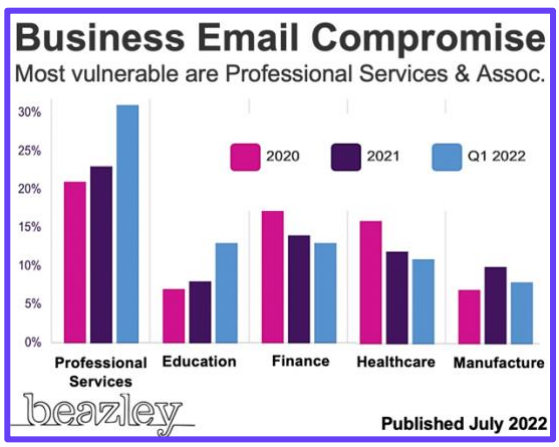






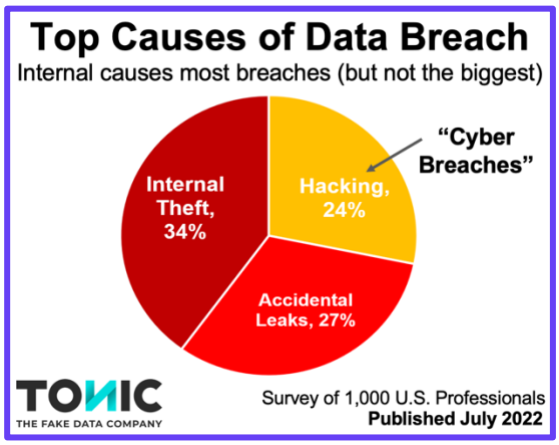


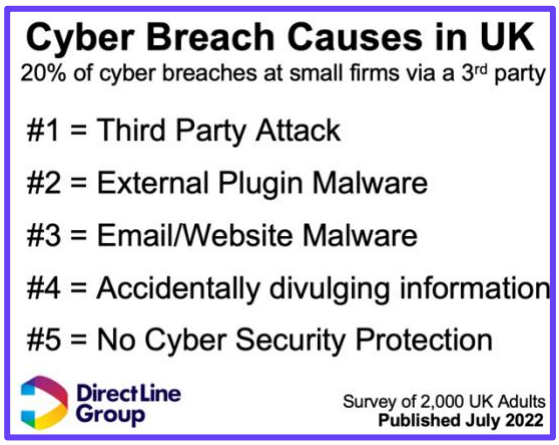


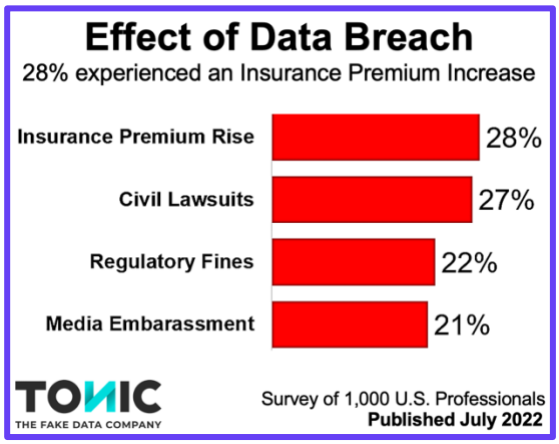


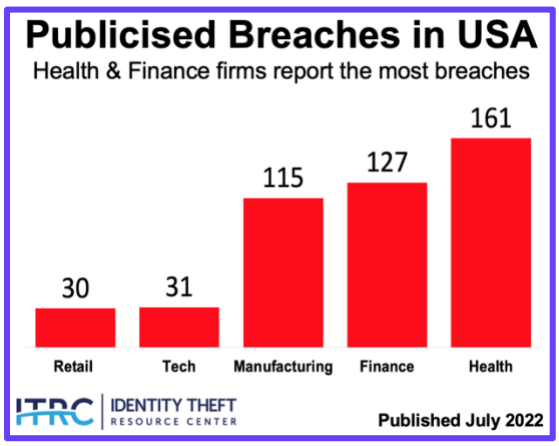
Cyber Insights: *Data Breaches*

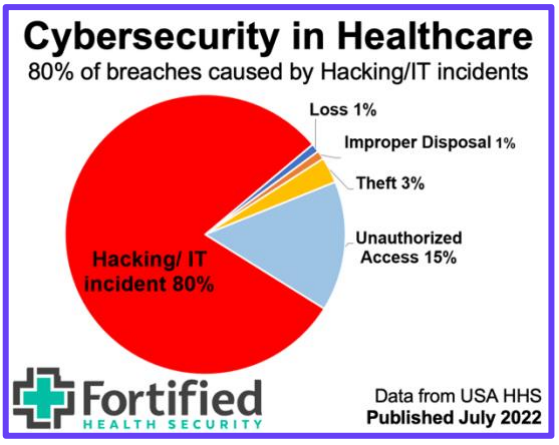
Click each image to see each report in full. All were published in month to August 2022

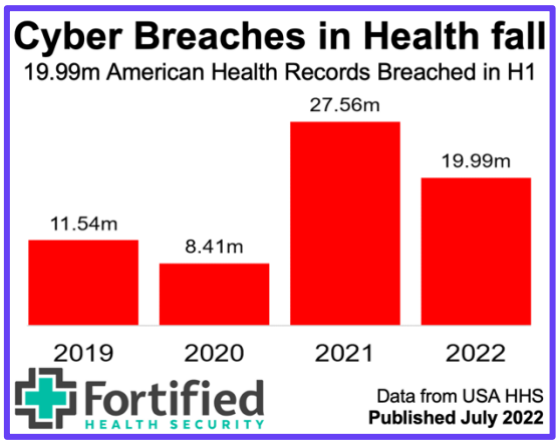


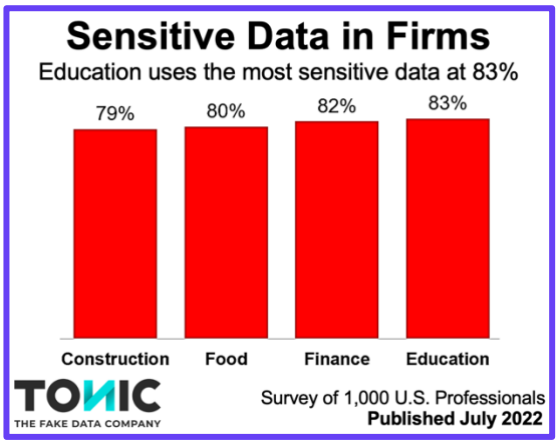


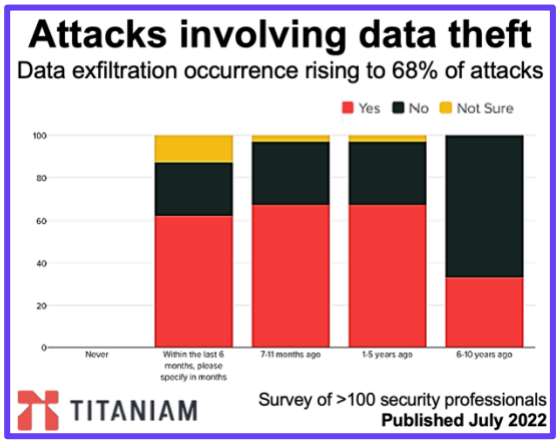












Cyber Insights: *MFA & Pen Testing*

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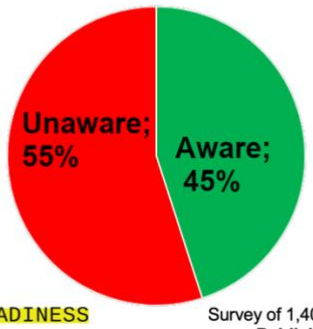
Small Firms' MFA Awareness

55% unaware of Multi-Factor Authentication (MFA)

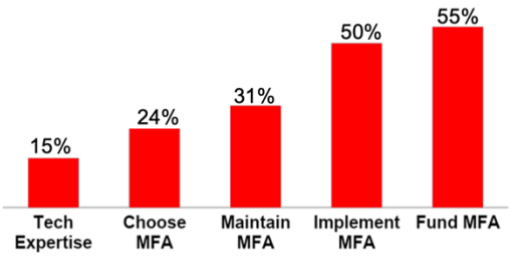


CYBER READINESS INSTITUTE

Survey of 1,403 small firms
Published July 2022

Small Firms' MFA challenges

Getting Funding for Multi-factor Authentication is top



CYBER READINESS INSTITUTE

Survey of 1,403 small firms
Published July 2022

Small Firms' MFA Perception

30% of small firms say they don't understand MFA

#1 = Don't understand MFA (30%)

#2 = Don't see Value in MFA (17%)

#3 = MFA is hard to implement (15%)

#4 = MFA is hard to use (9%)

#5 = Other reason to avoid MFA (29%)

CYBER READINESS INSTITUTE

Survey of 1,403 small firms
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Small Firms' MFA usage

Databases most protected by Multi-Factor Authent

#1 = Databases (45%)

#2 = Accounting (44%)

#3 = HR Software (40%)

#4 = Social Media (34%)

#5 = E-mail (33%)

CYBER READINESS INSTITUTE

Survey of 1,403 small firms
Published July 2022

Pen Testing Motivations

Measuring Cyber Security Posture is top motivation

#1 = Measure Cyber Security Posture

#2 = Compliance or external mandates

#3 = Vulnerability Management Prog

#4 = Red-Blue-Purple teaming

#5 = Other

coresecurity by HelpSystems

Global Survey of cybersecurity professionals
Published July 2022

Pen Testing Challenges

To get qualified Penetration Testers is #1 challenge

#1 = Get Qualified 3rd Party Tester

#2 = Hire Skilled Personnel internally

#3 = Obtain Funding & Mngt Support

#4 = Get others to Act on Findings

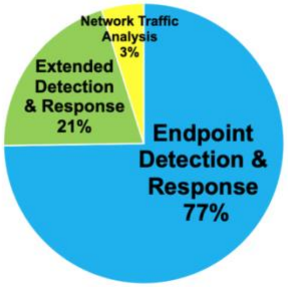
#5 = Other Challenges

coresecurity by HelpSystems

Global Survey of cybersecurity professionals
Published July 2022

Cyber Threat Detection Tool

Endpoint Detection & Response used by 77%

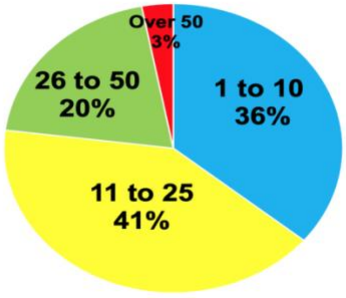


cynet

Survey of 200 CISOs
Published July 2022

Cyber Security Tools / Firm

Only 3% of firms use >50 cyber security products



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Cyber Insights: *Industrial & OT Security*

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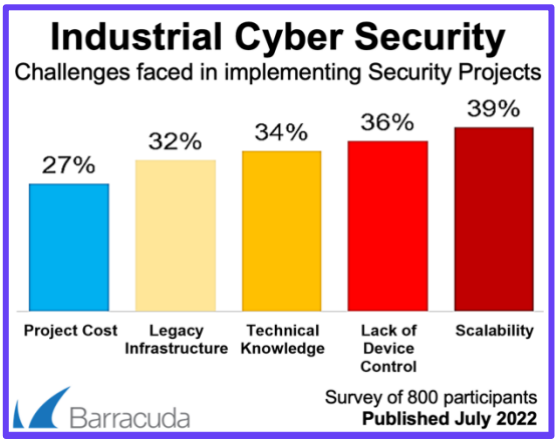

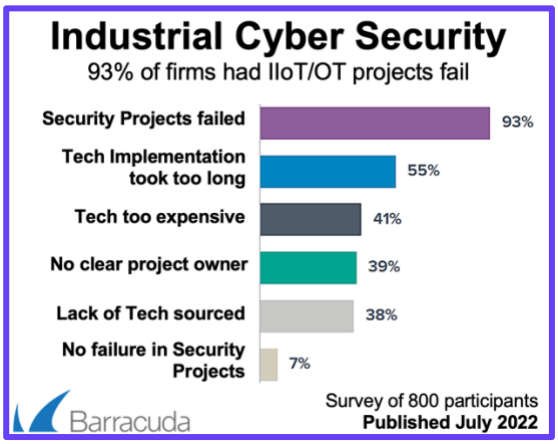

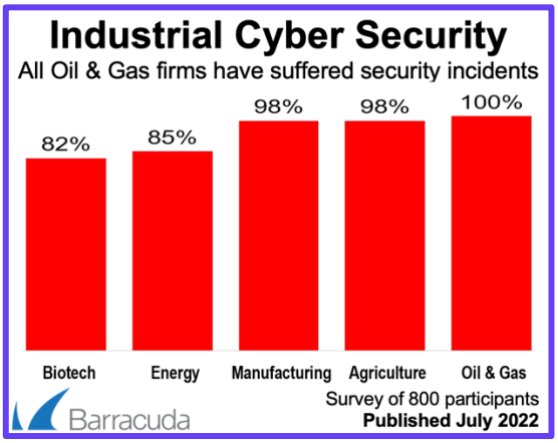

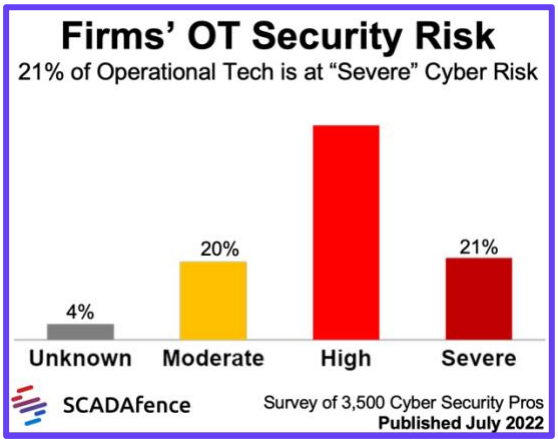

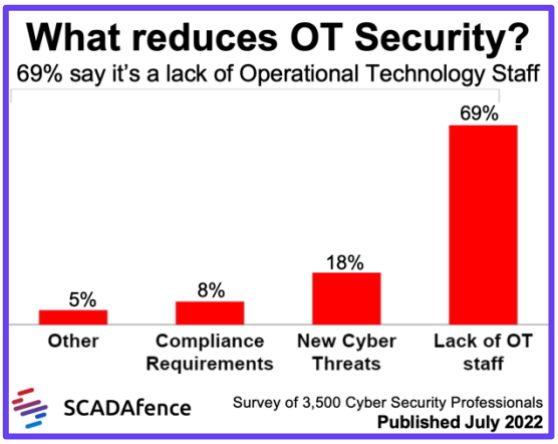

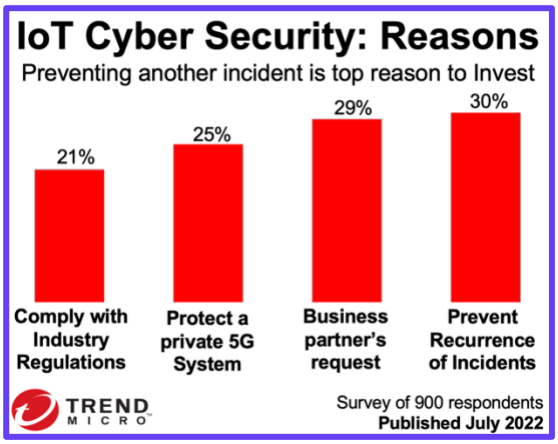

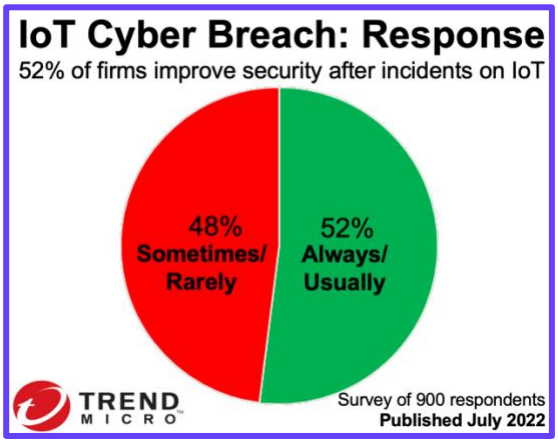

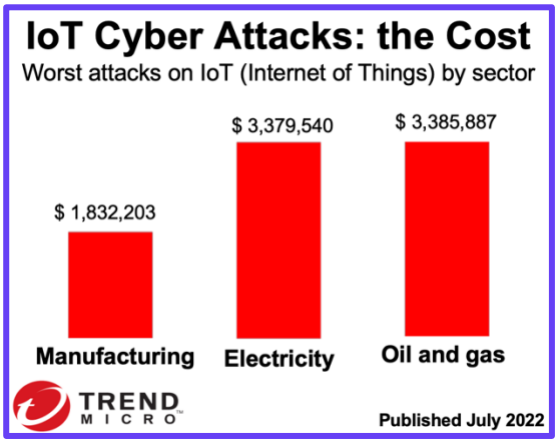

Cyber Insights: *Industrial Controls Security*

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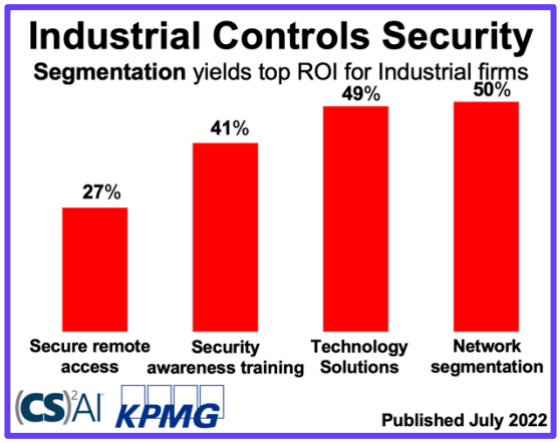

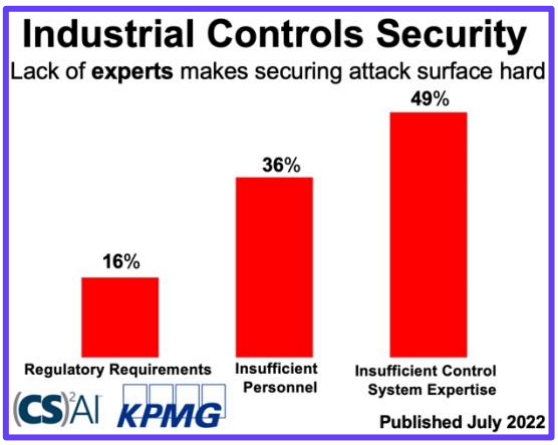

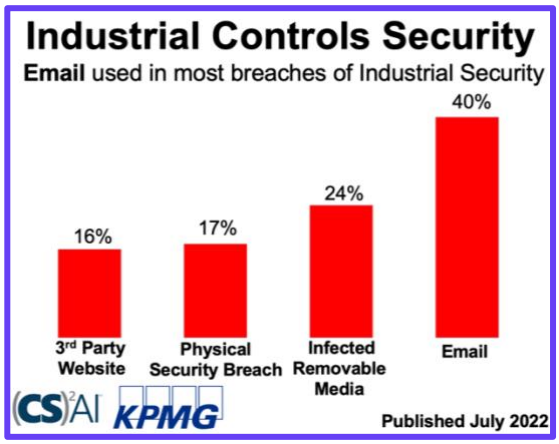

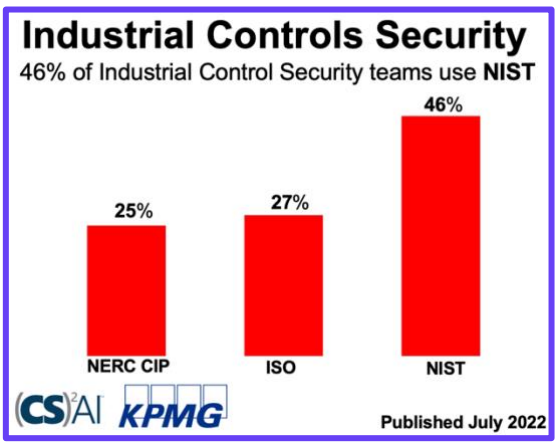

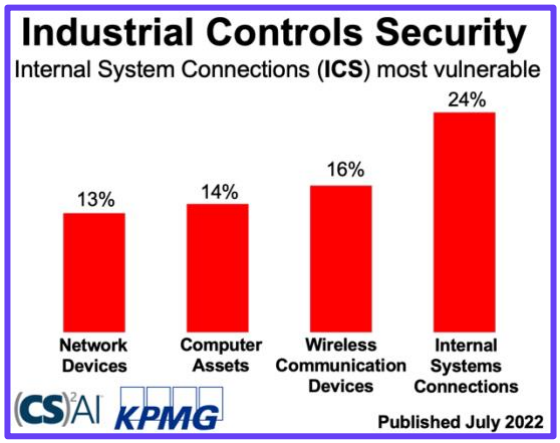

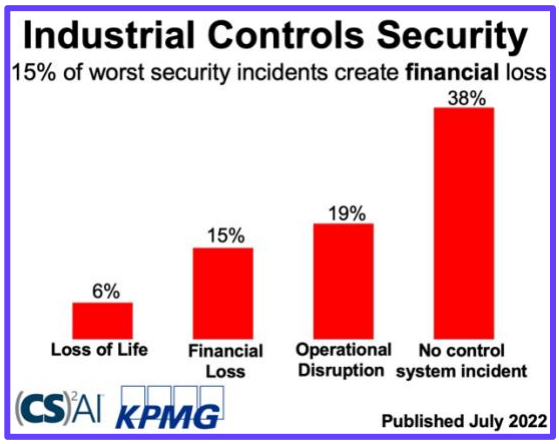

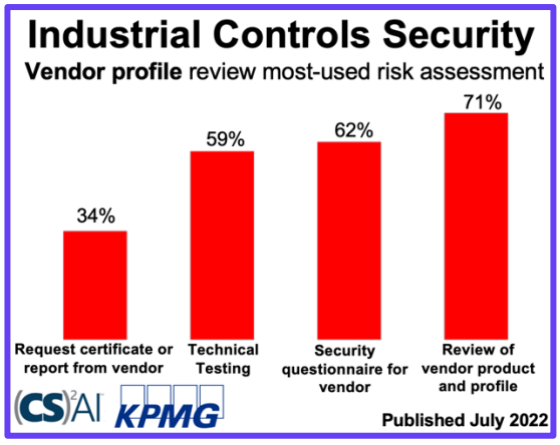

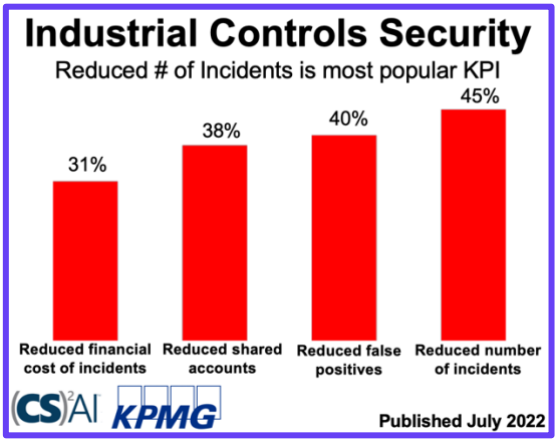

Cyber Insights: *Ransom Payments*

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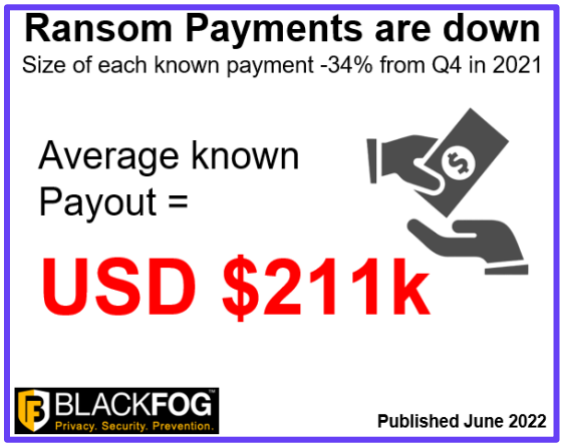

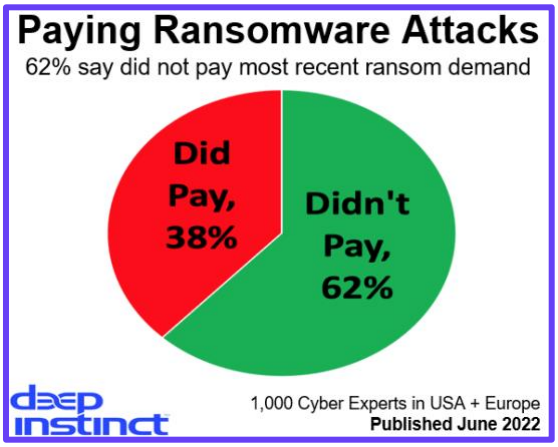

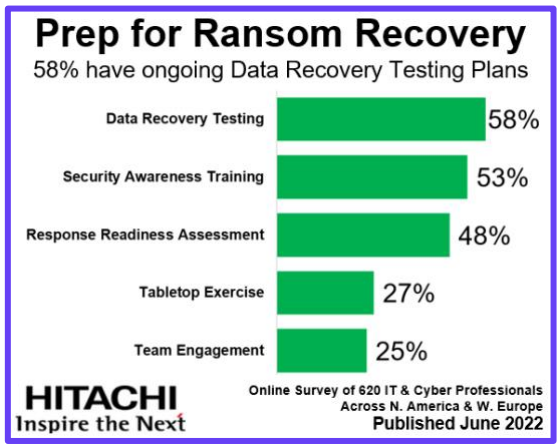

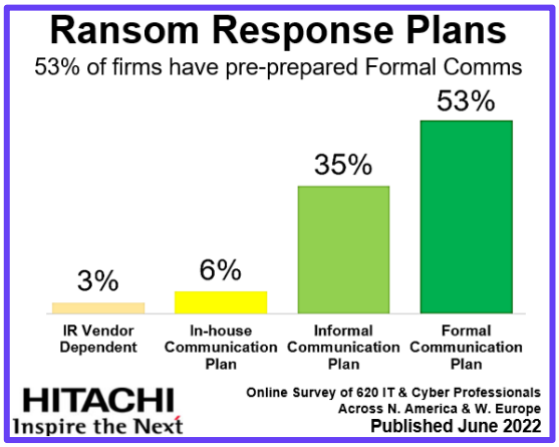

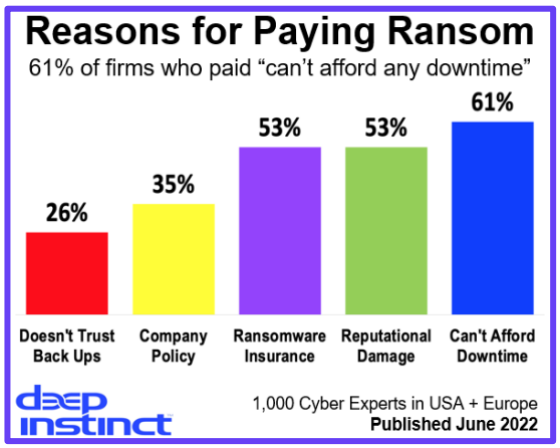

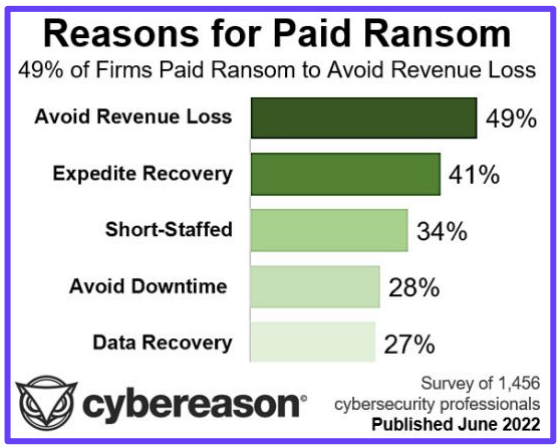

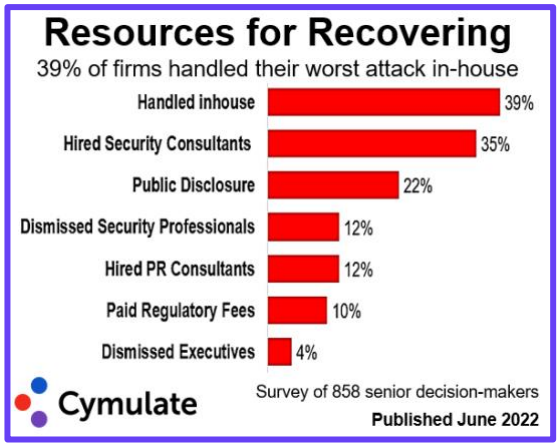

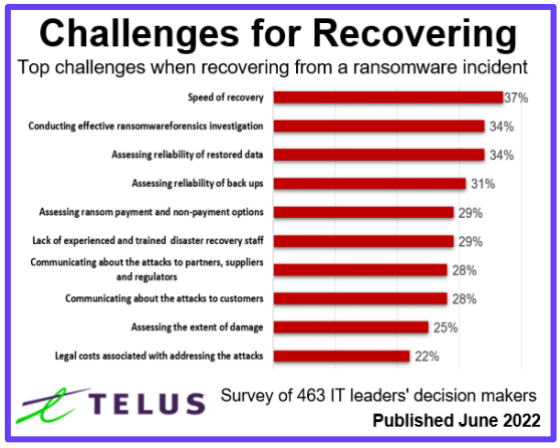

Cyber Insights: *Ransom Frequency*

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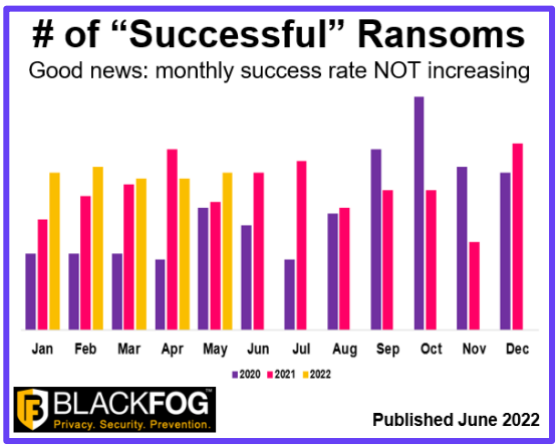

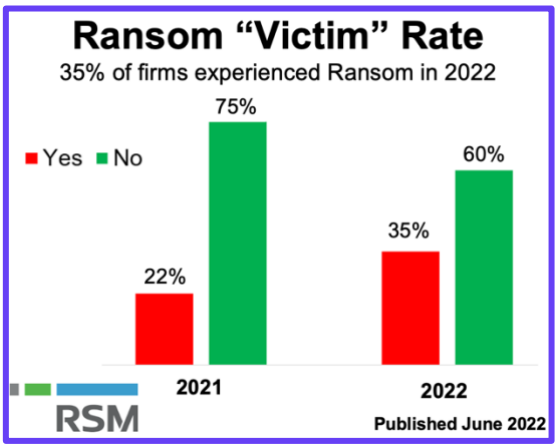

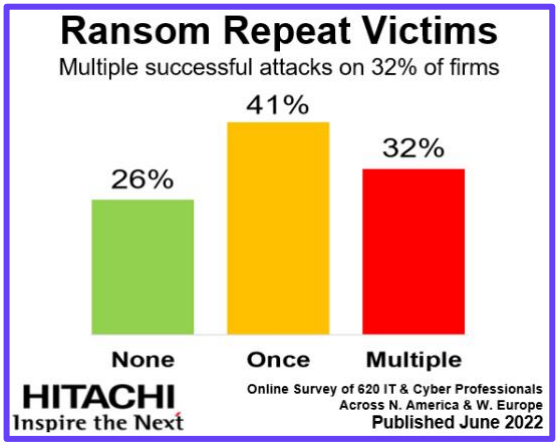

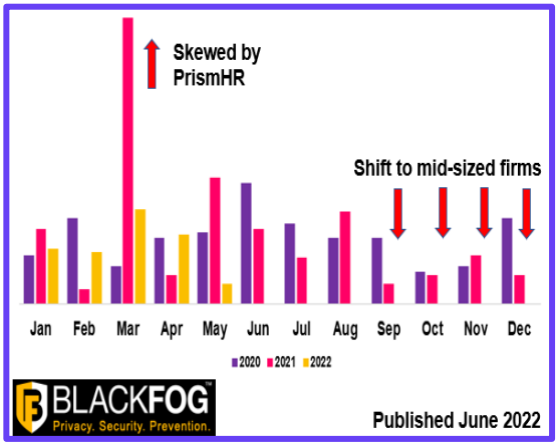

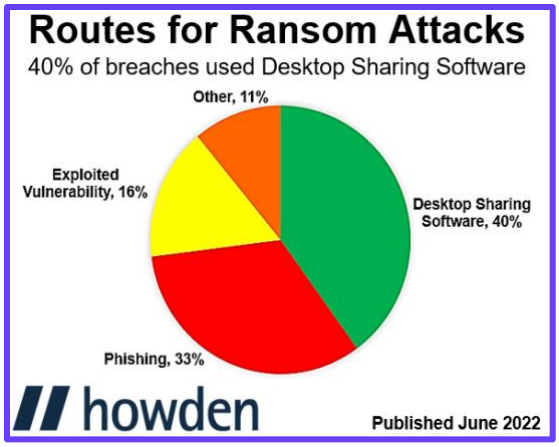

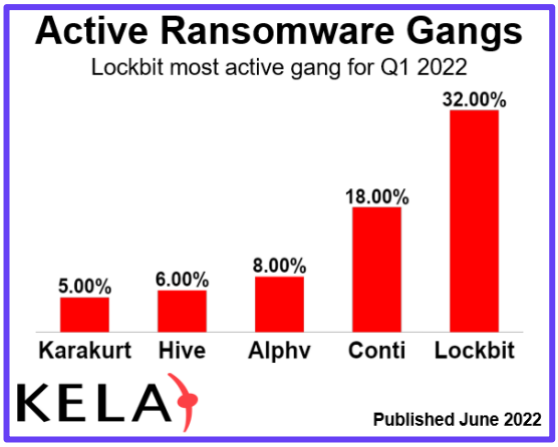

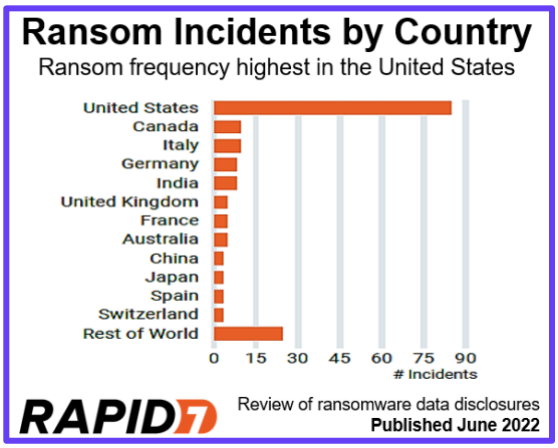

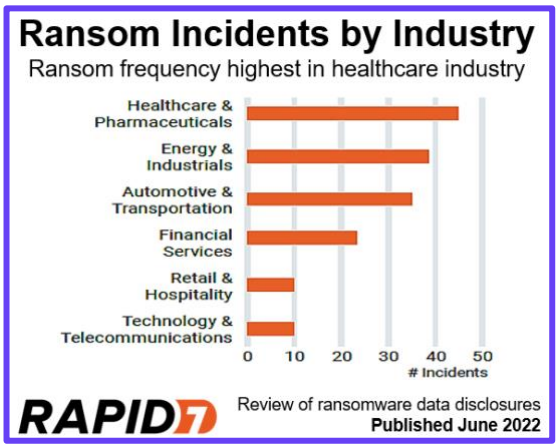

Cyber Insights: *Ransomware Trends*

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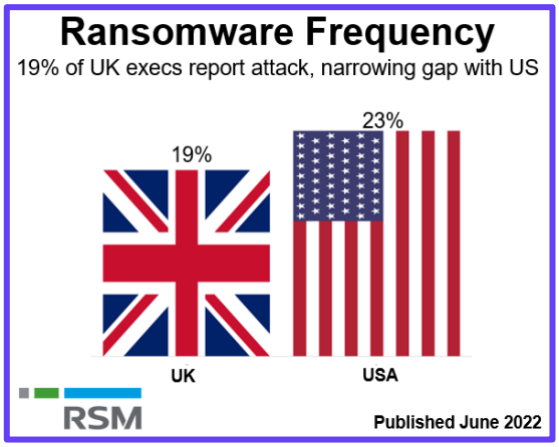

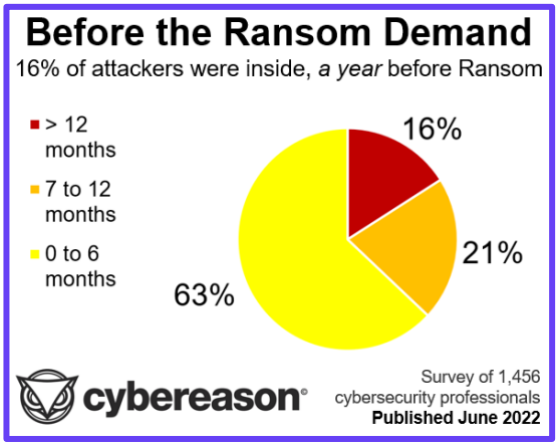

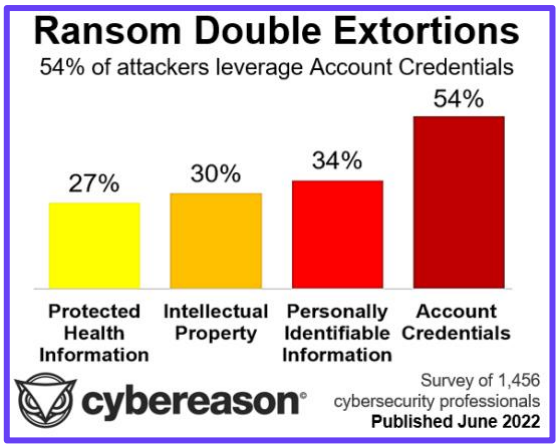

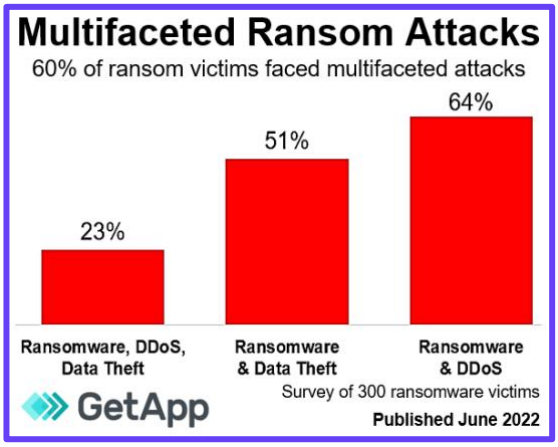

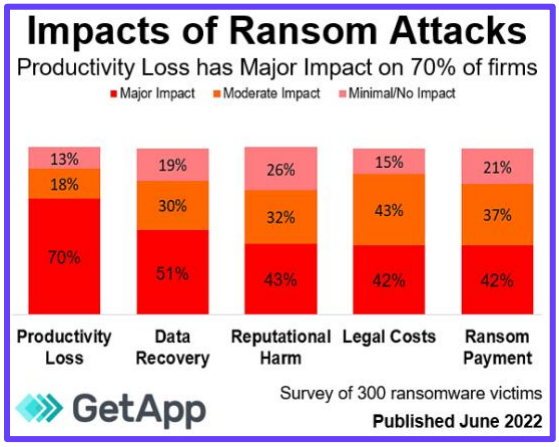

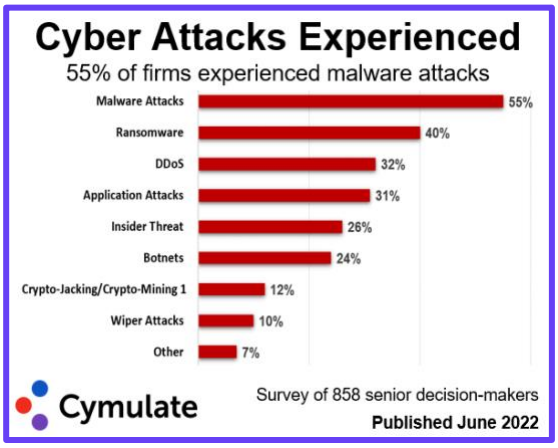

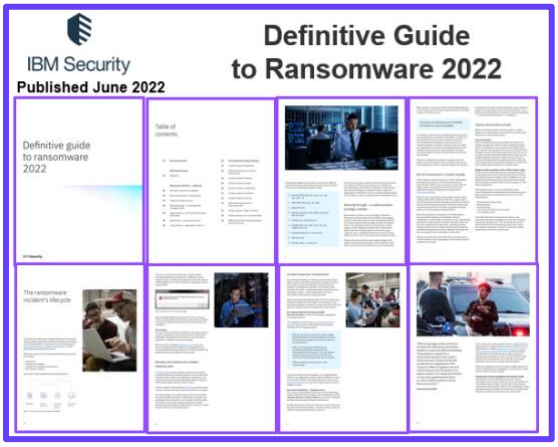

Cyber Insights: *Cyber Risk Governance*

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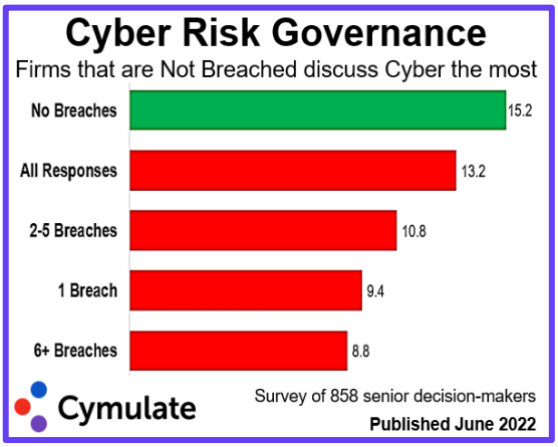

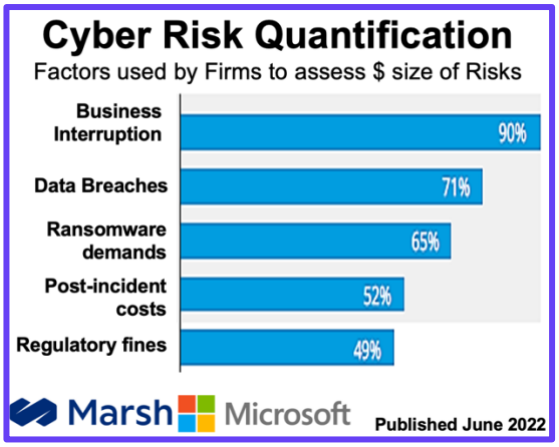

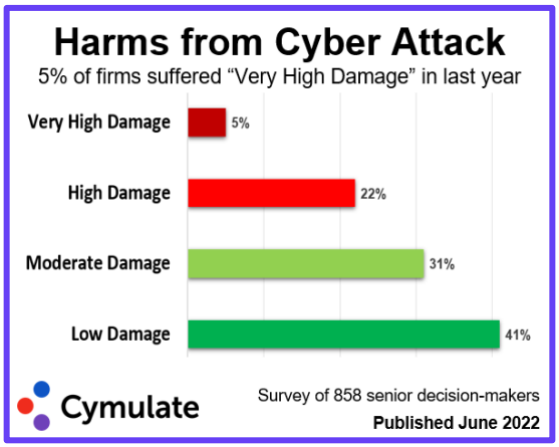

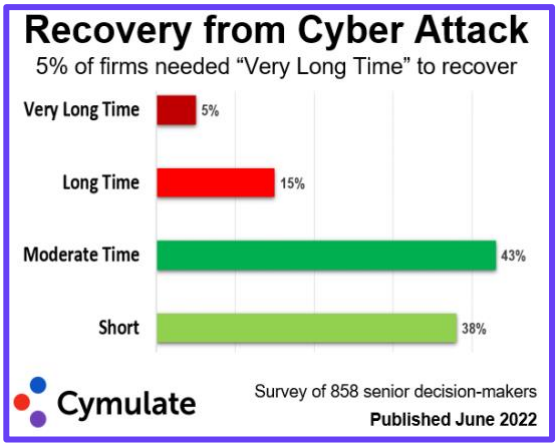

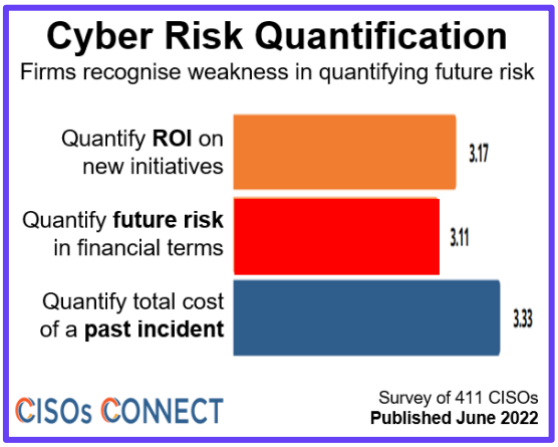

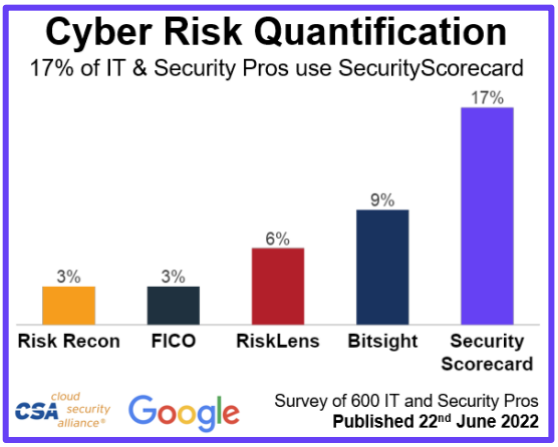

Cyber Insights: *Cyber Insurance*

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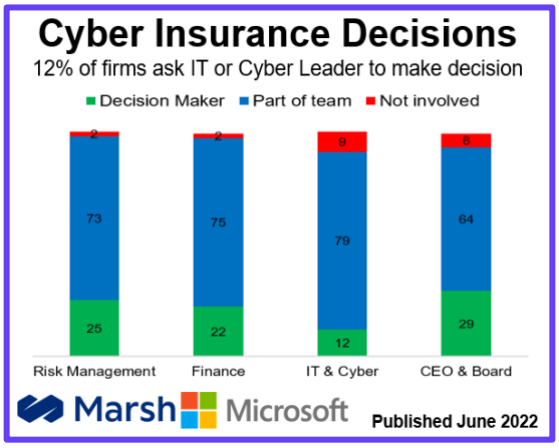

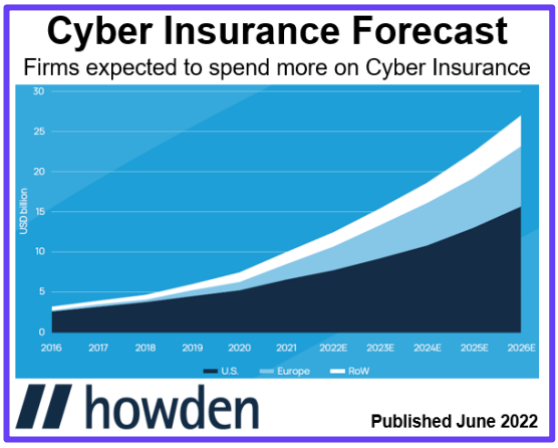

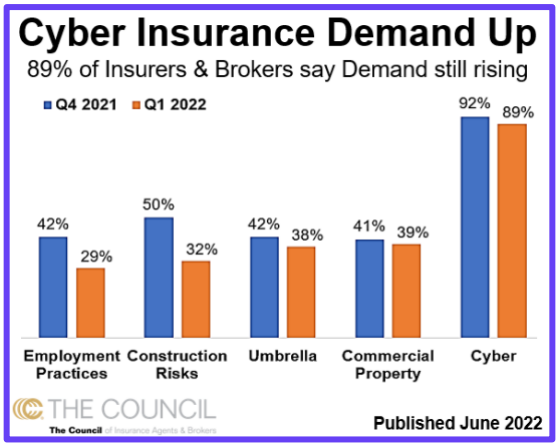

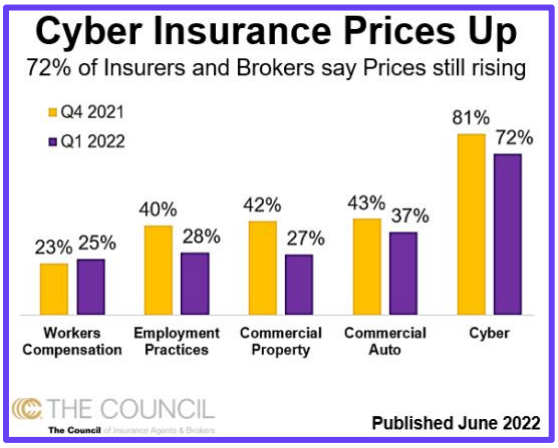

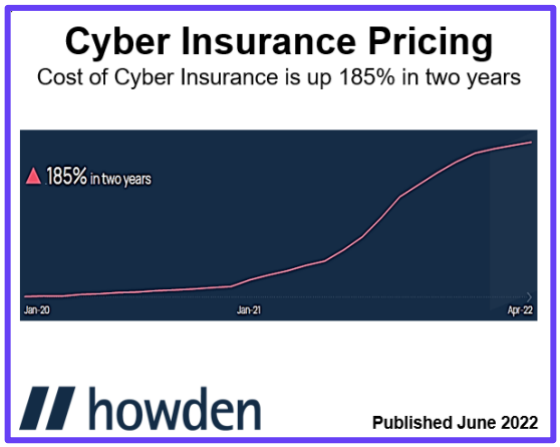

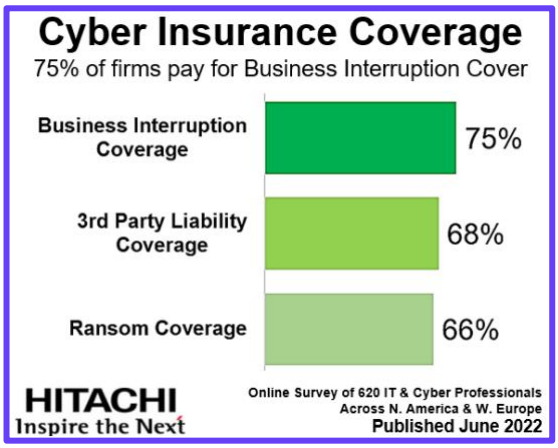

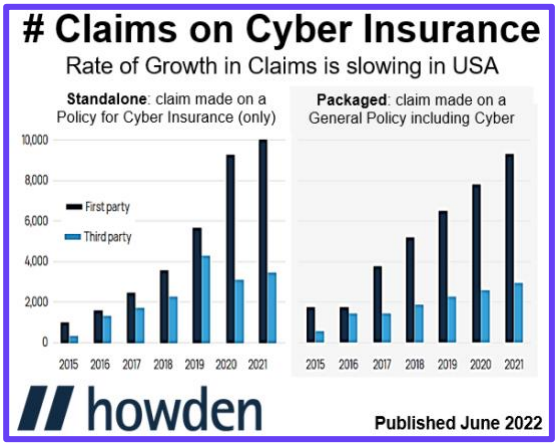

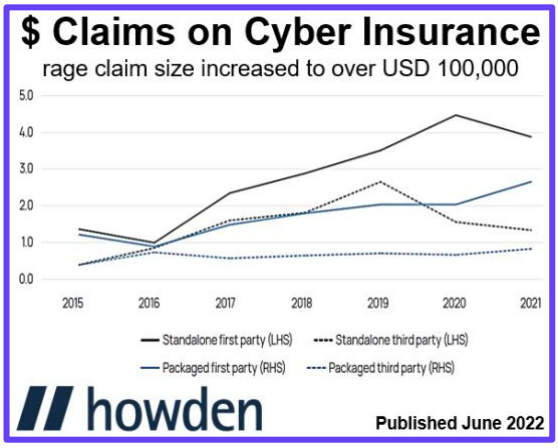

Cyber Insights: *Phishing & Whaling*

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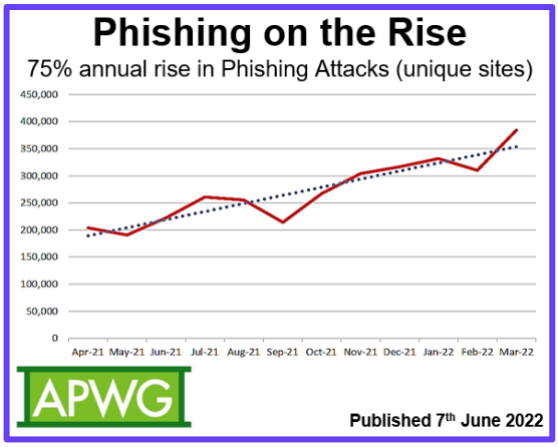

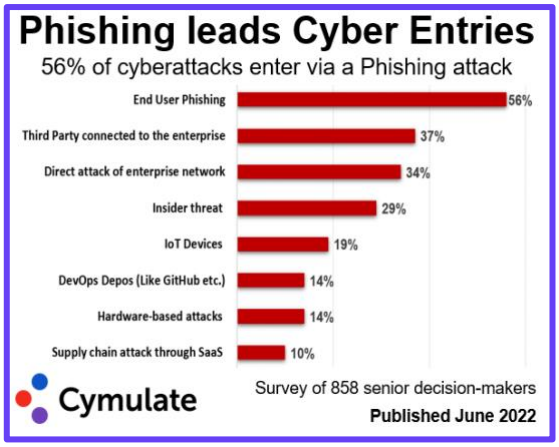

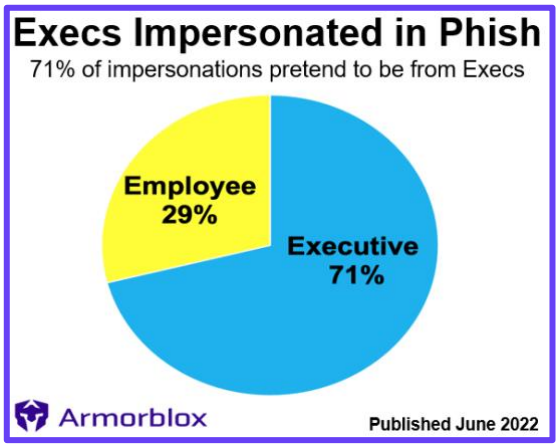

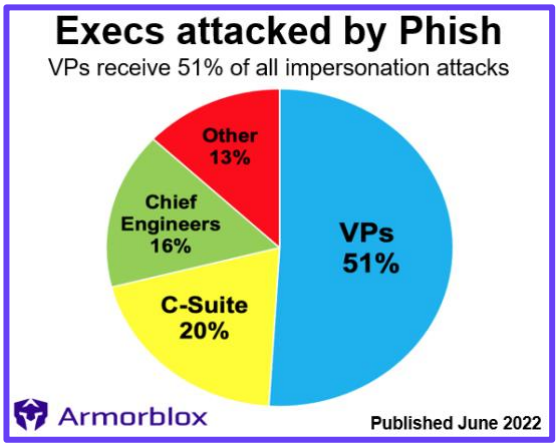

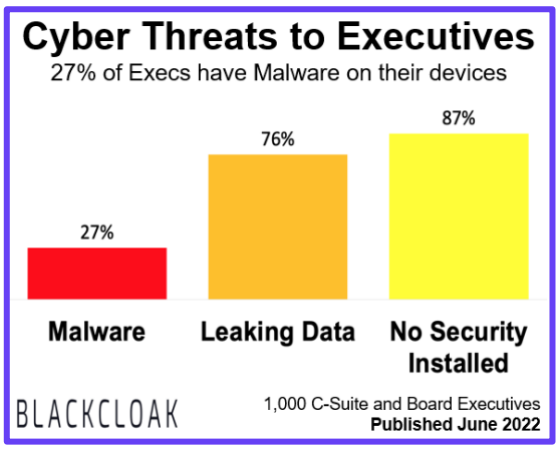

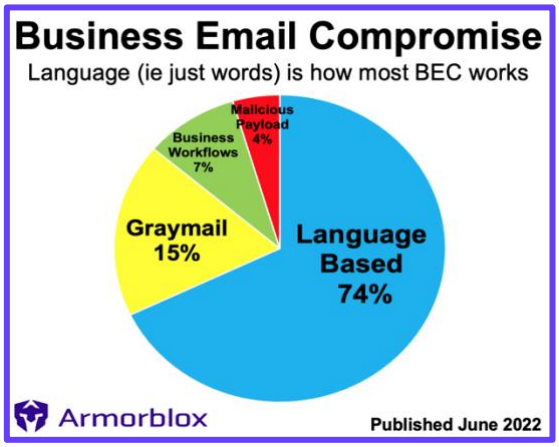

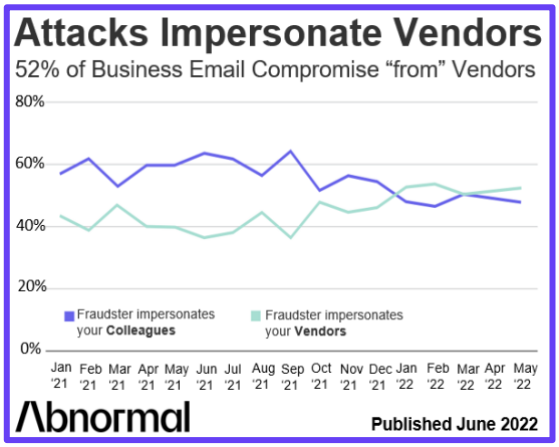

Cyber Insights: *Cyber on Cloud and OT*

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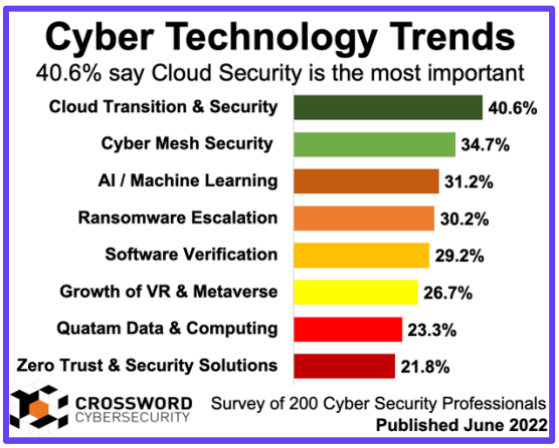

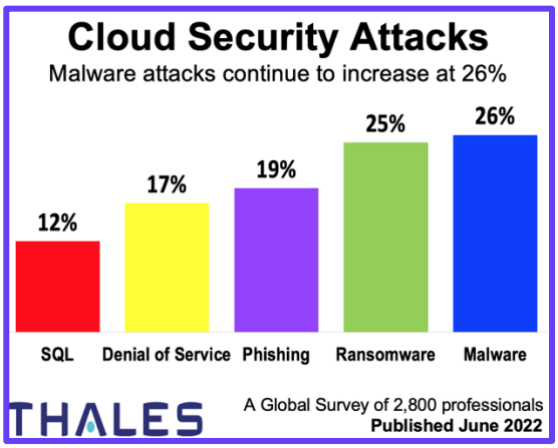

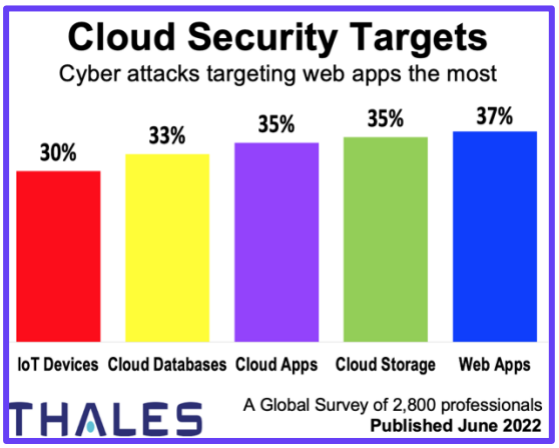

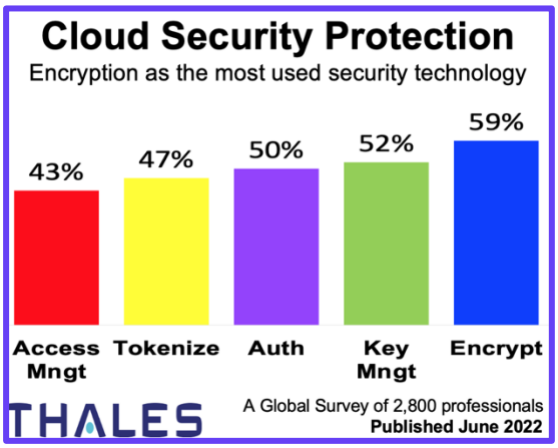

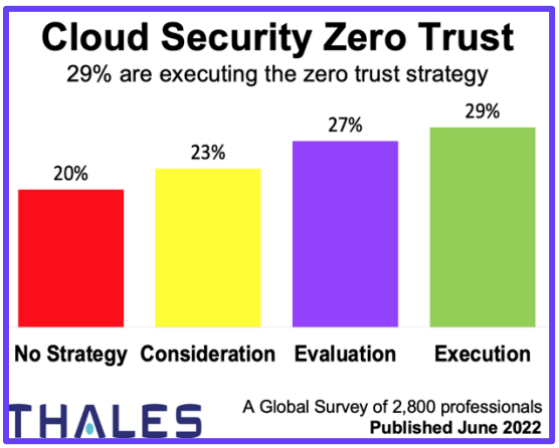

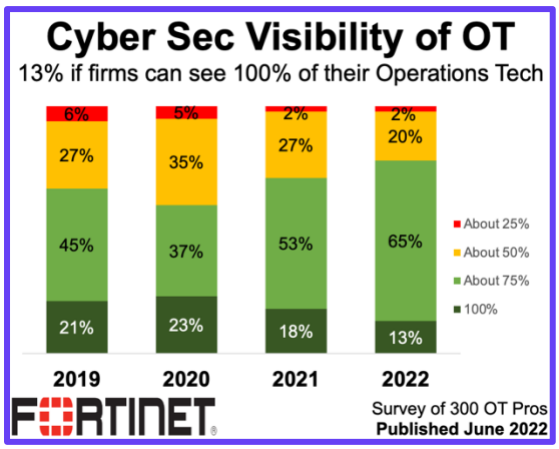

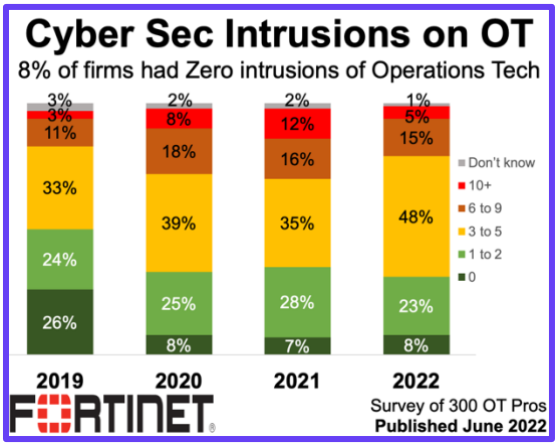

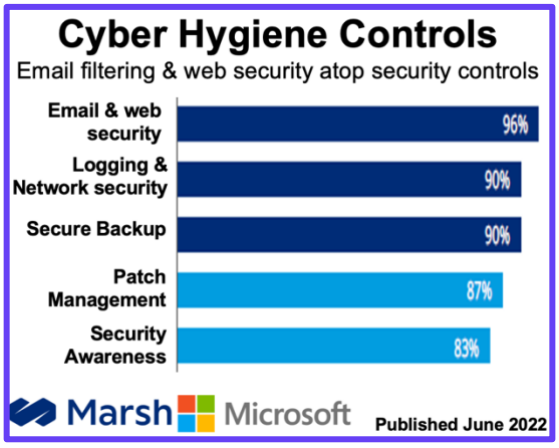

Cyber Insights: *CISO fears*

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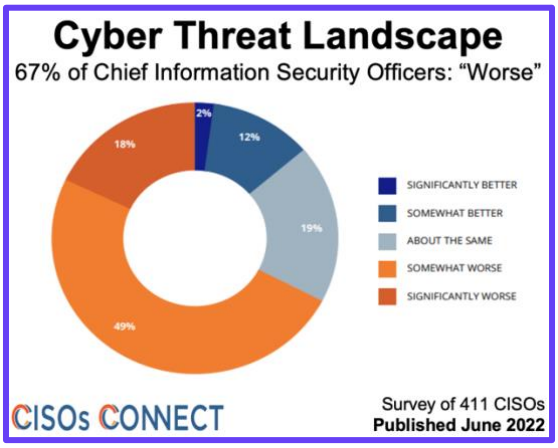

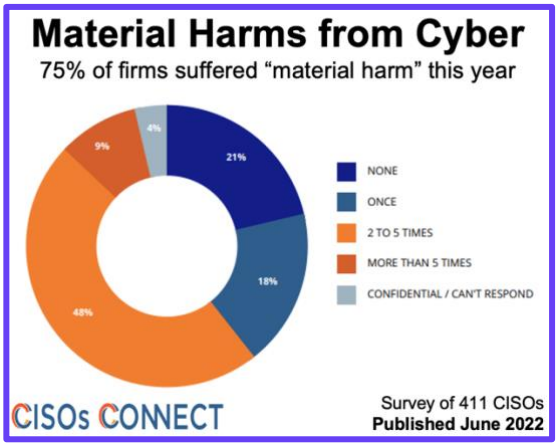

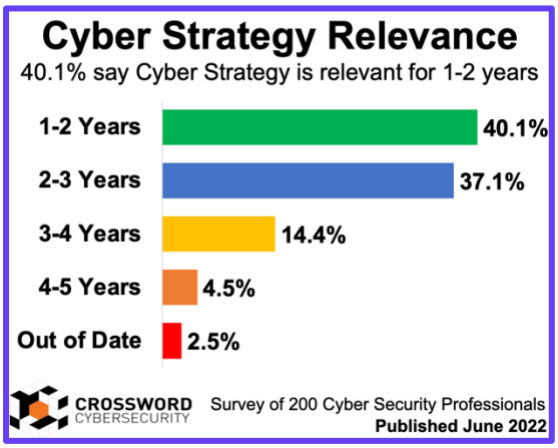

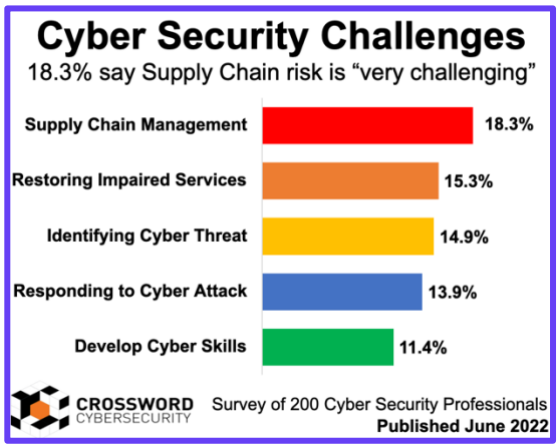

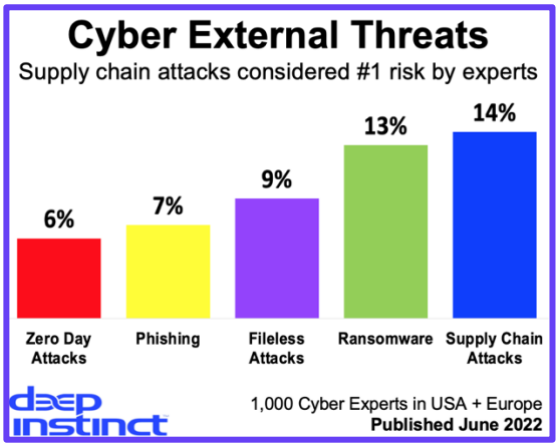

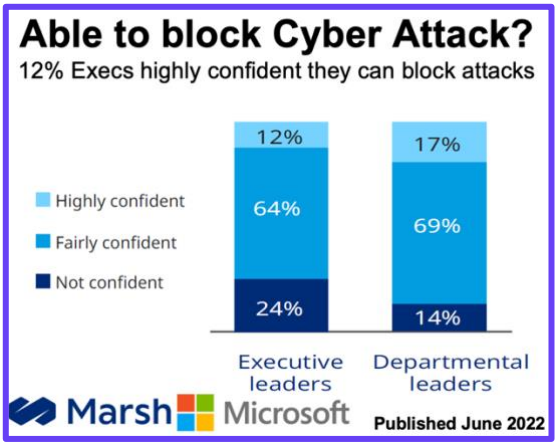

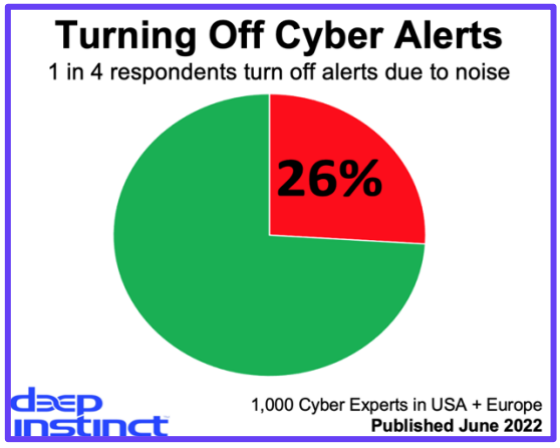

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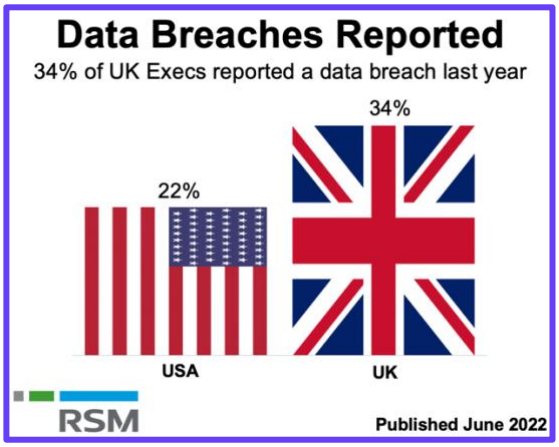

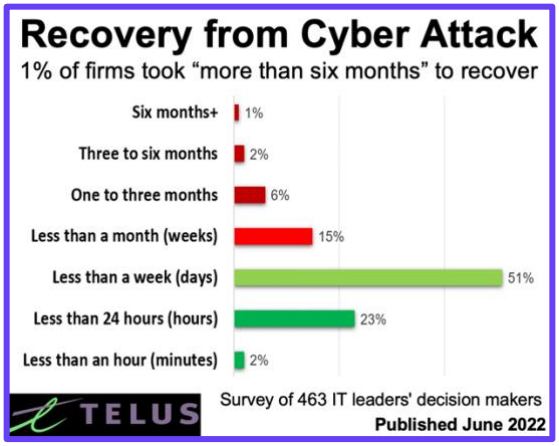

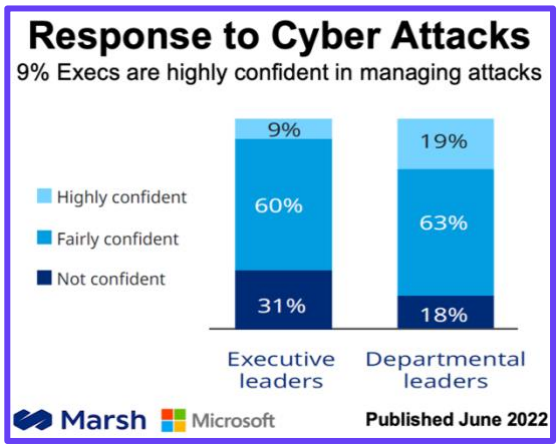

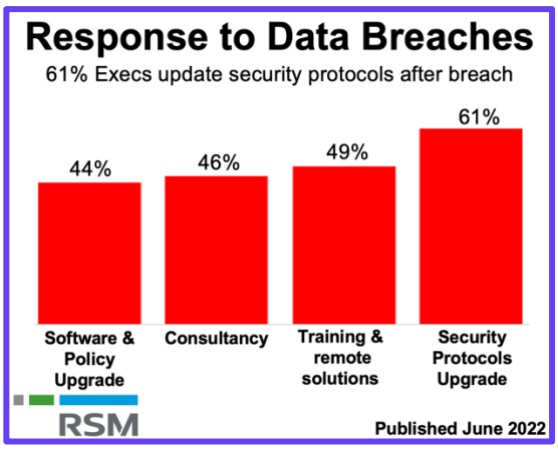

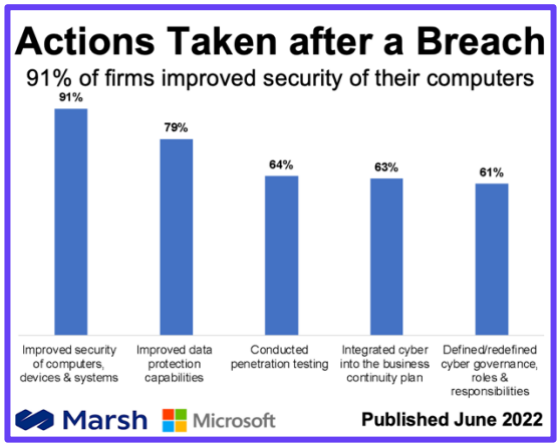

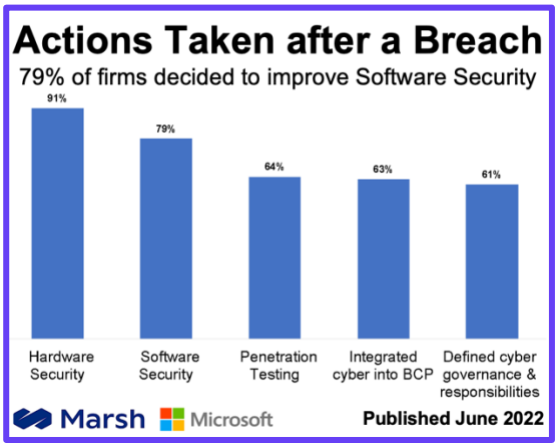

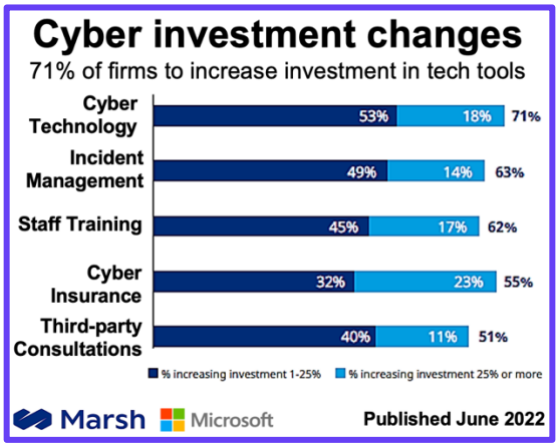

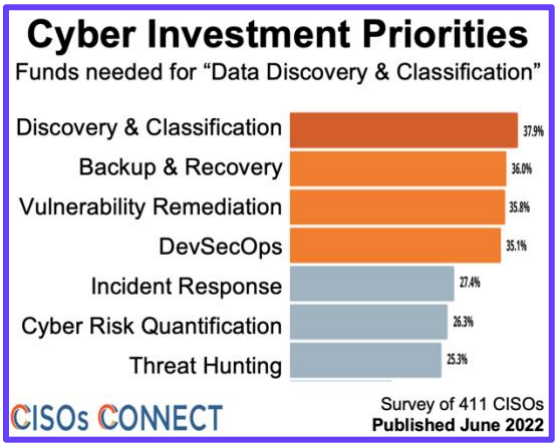

Cyber Insights: *Cyber Attack Trends*

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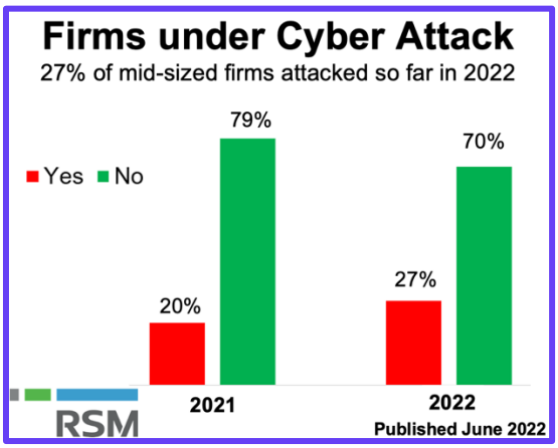

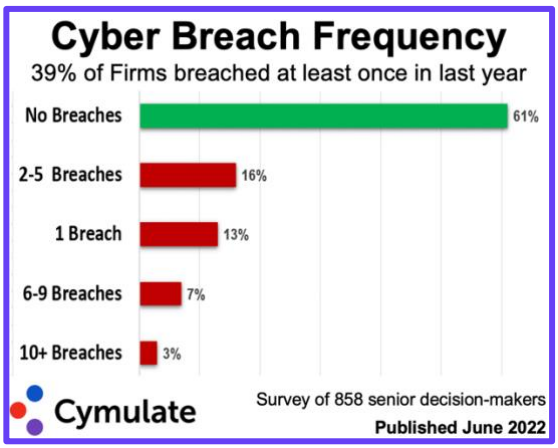

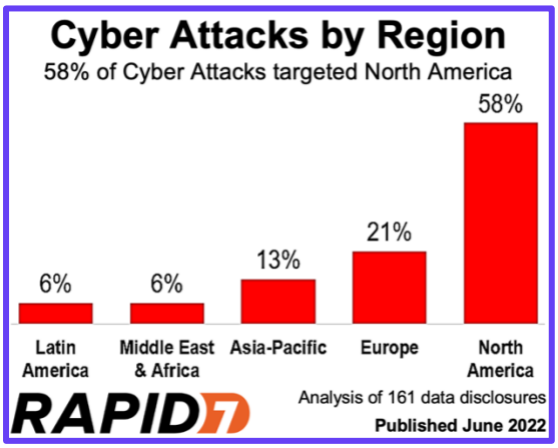

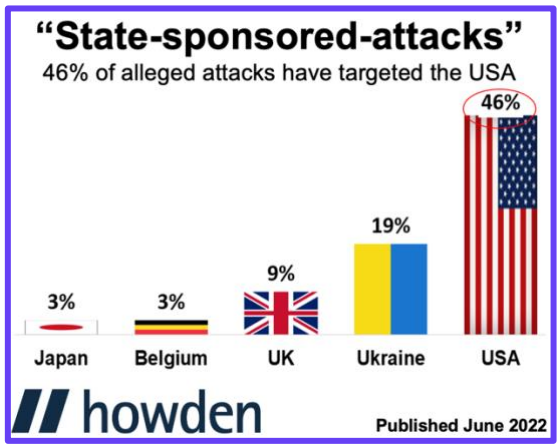

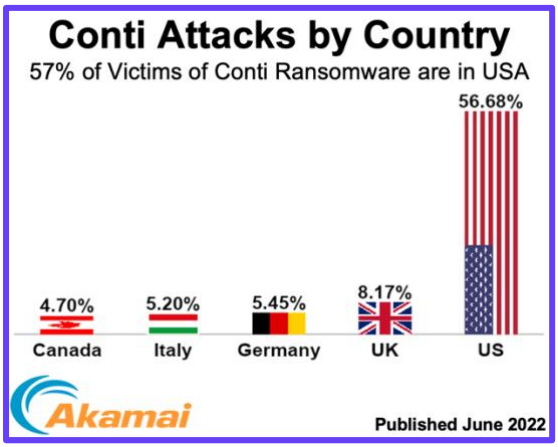

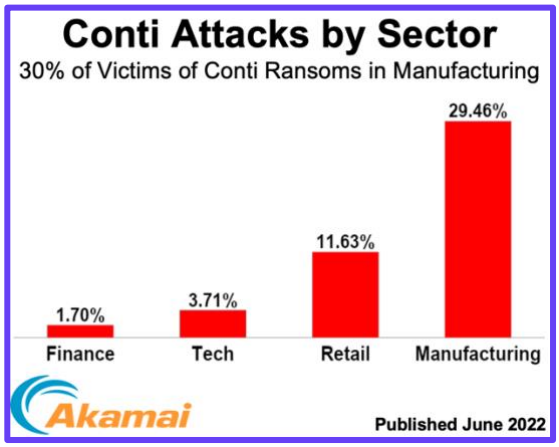

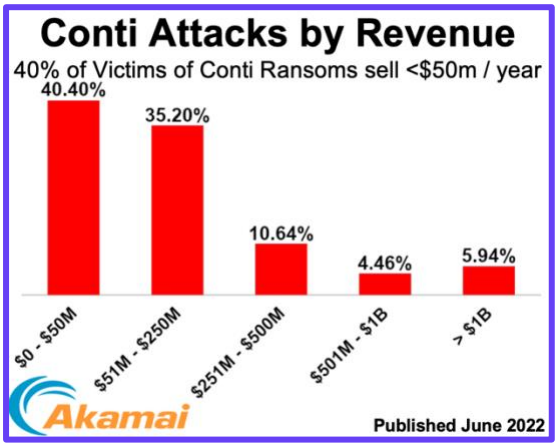

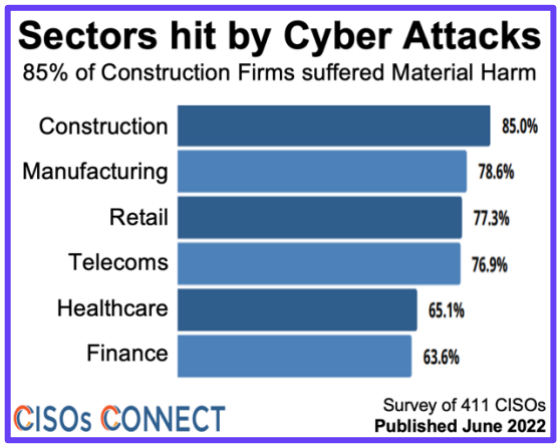

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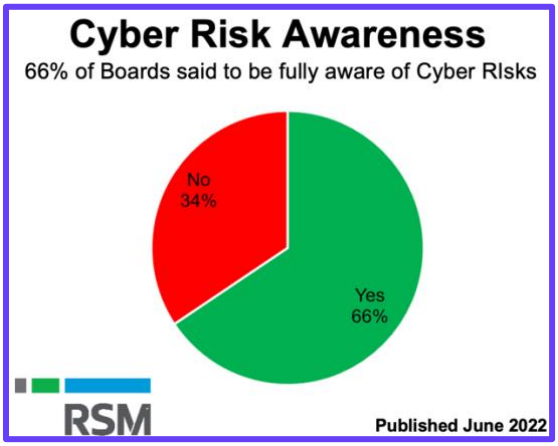

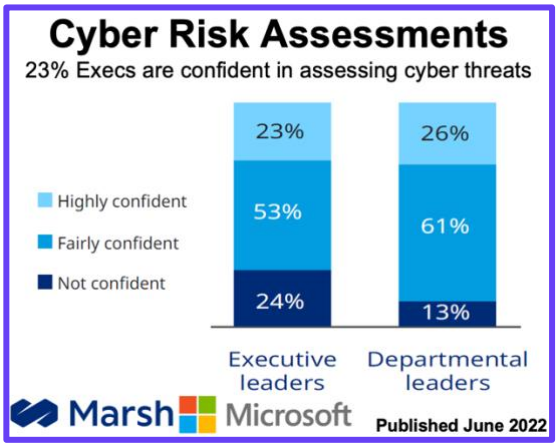

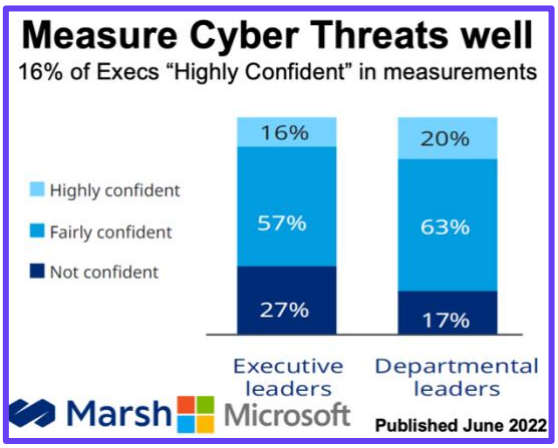

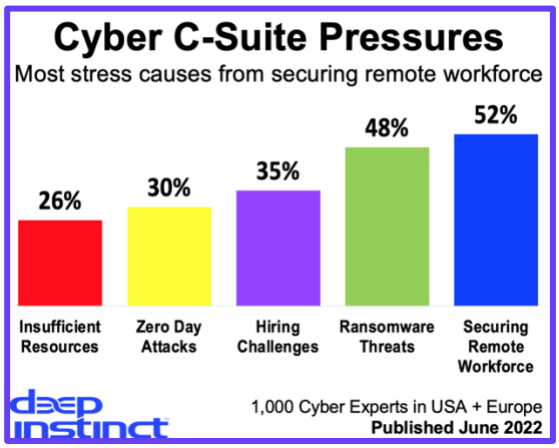

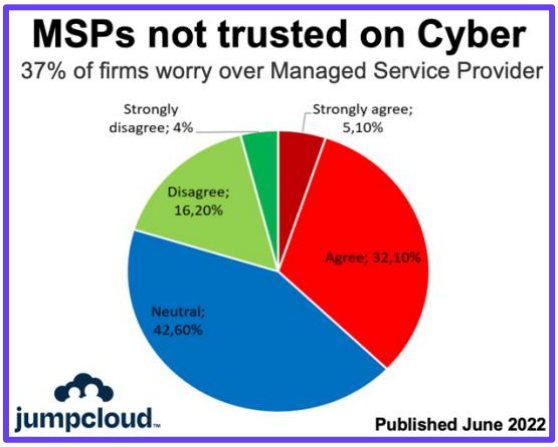

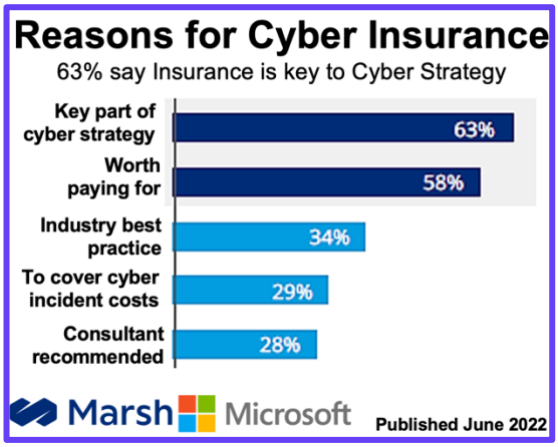

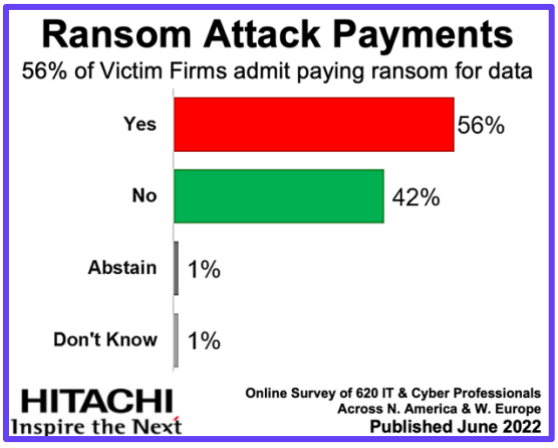

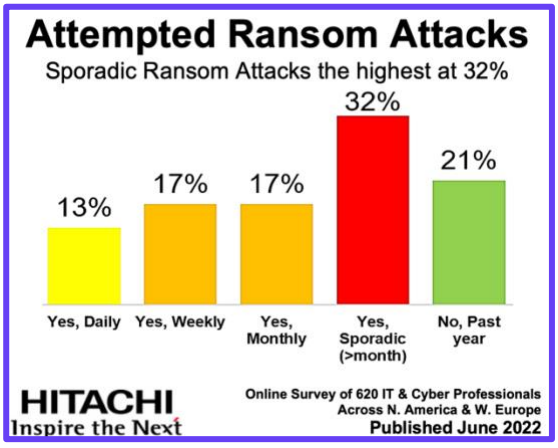

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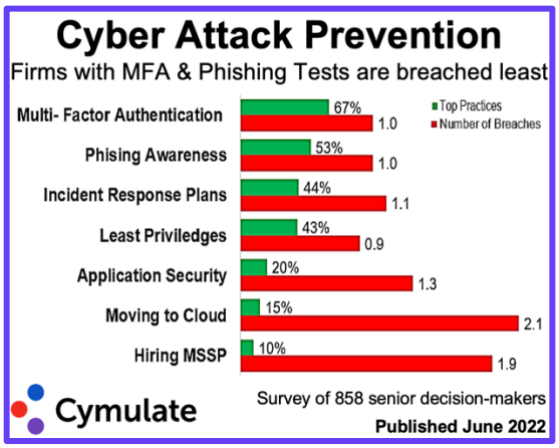

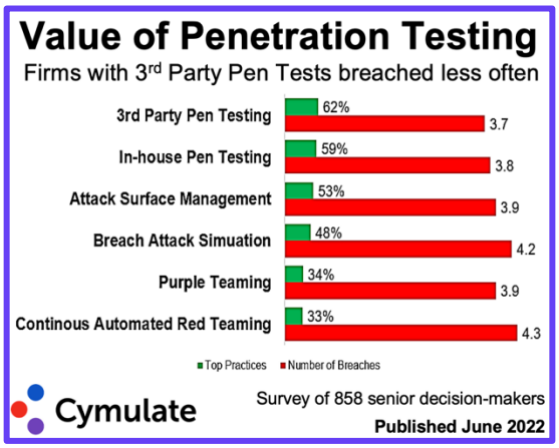

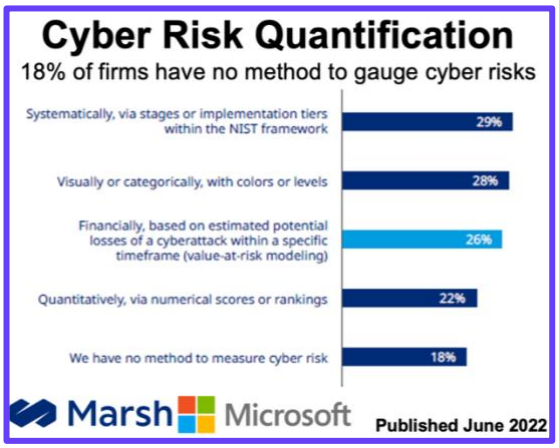

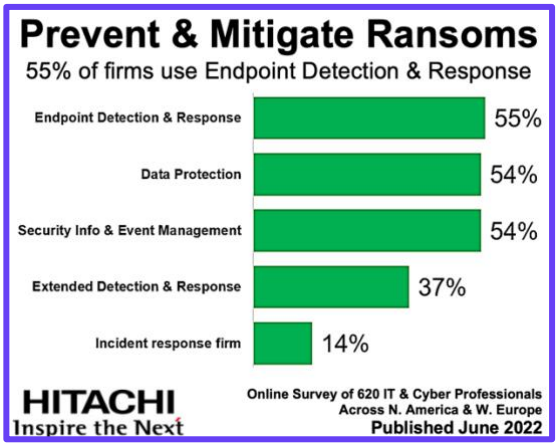

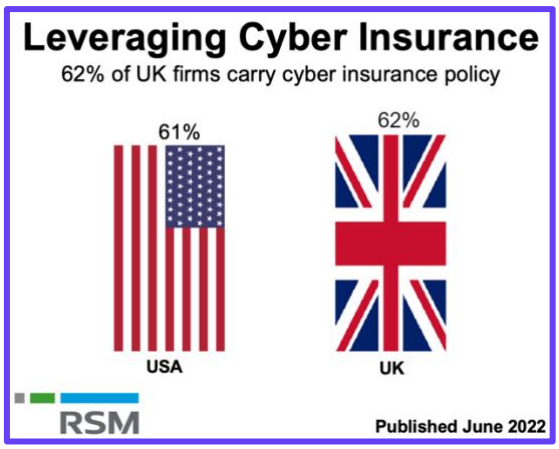

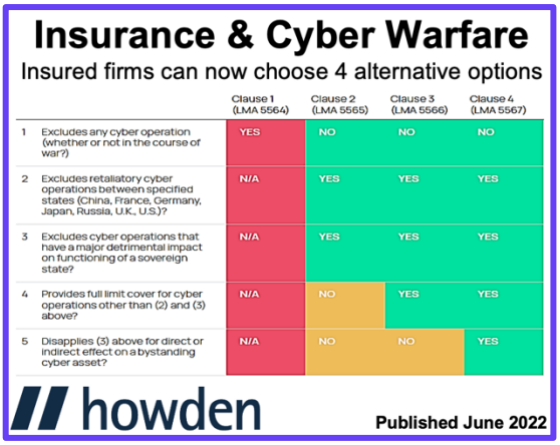

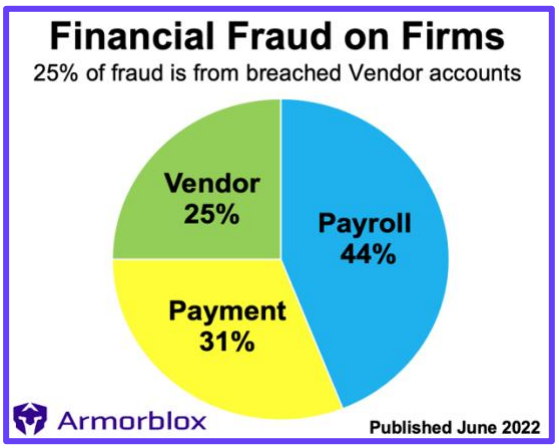

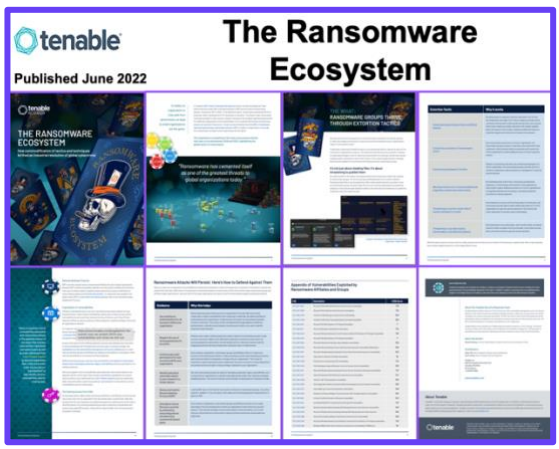

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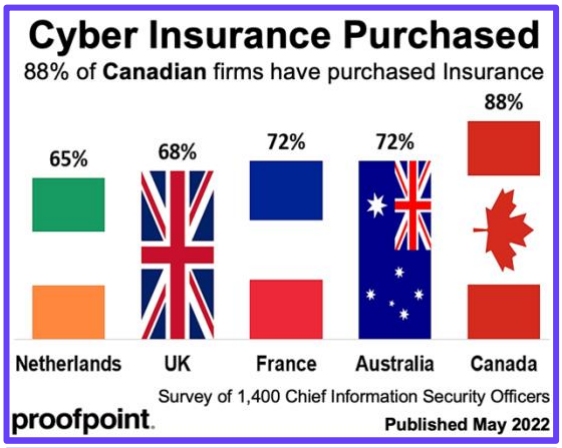

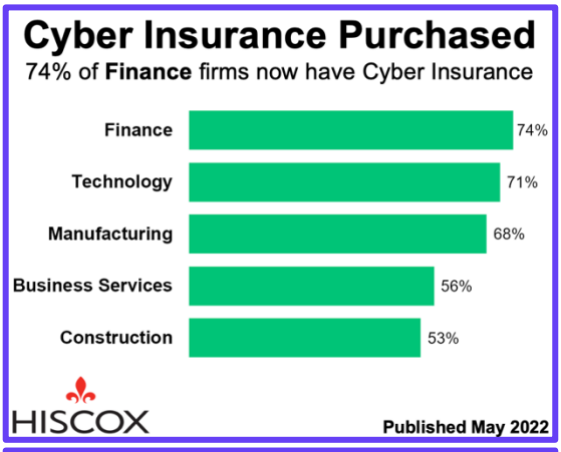

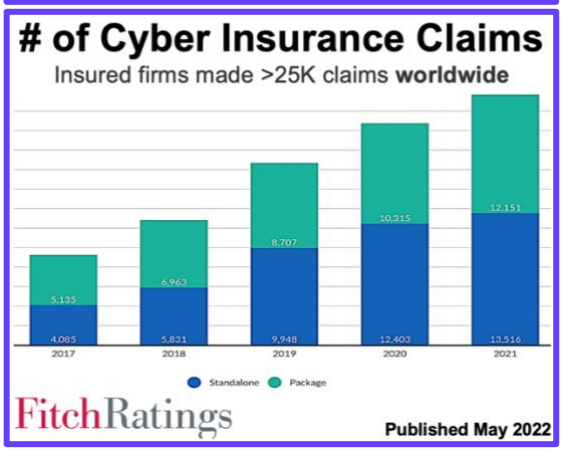

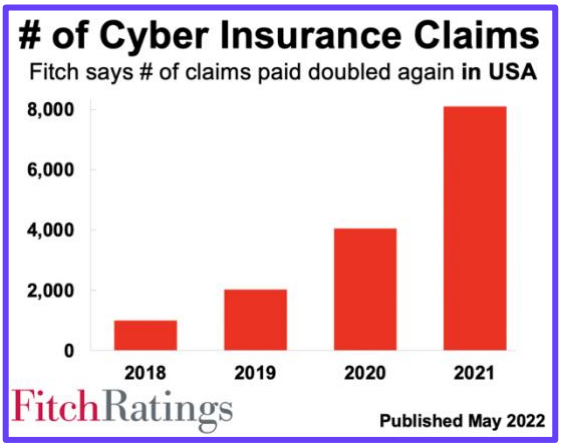

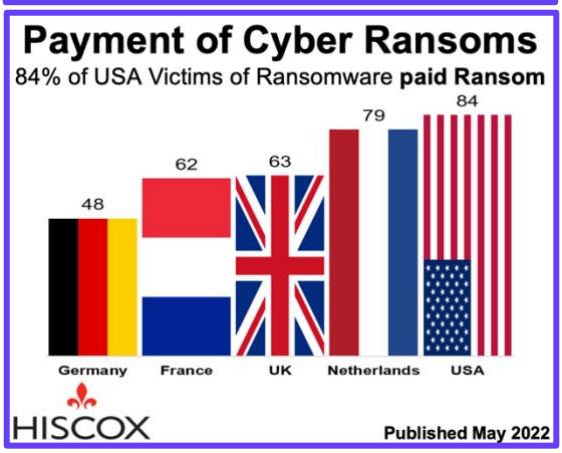

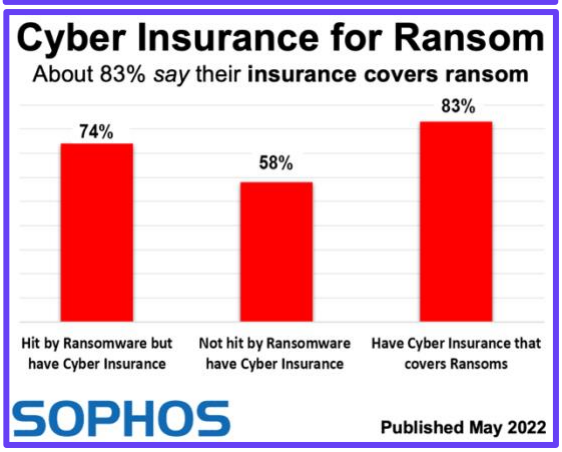

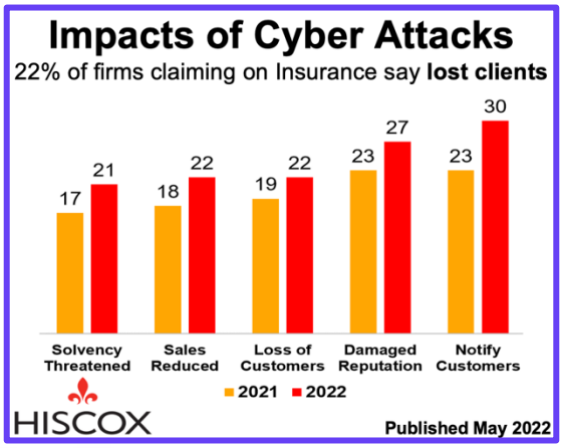

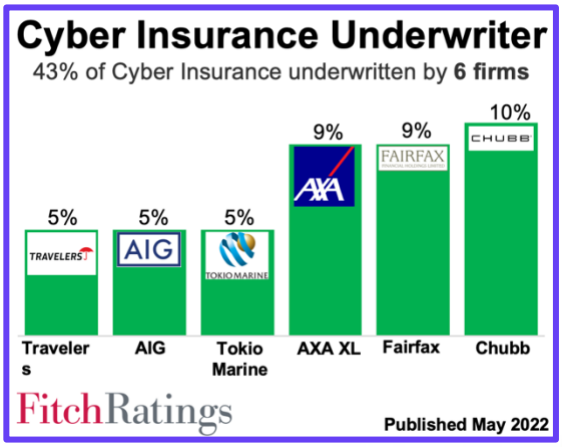

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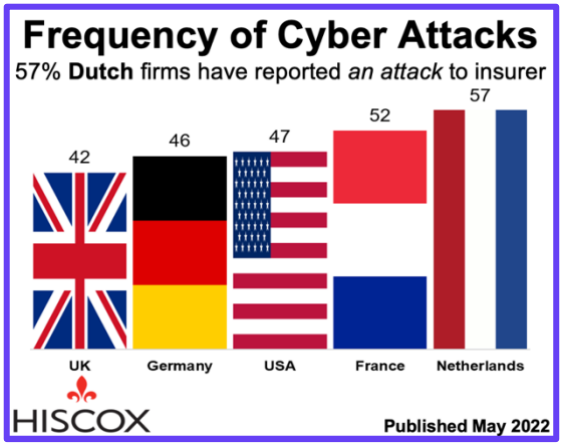

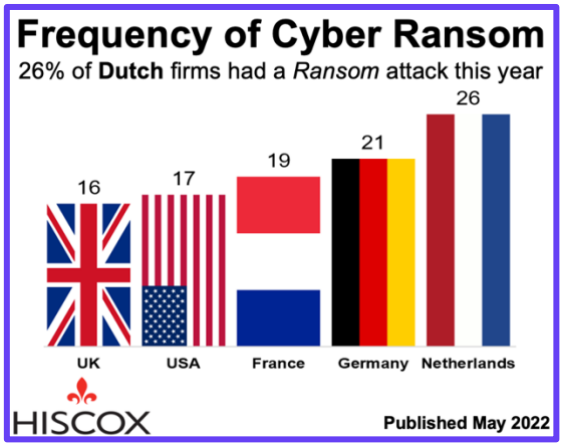

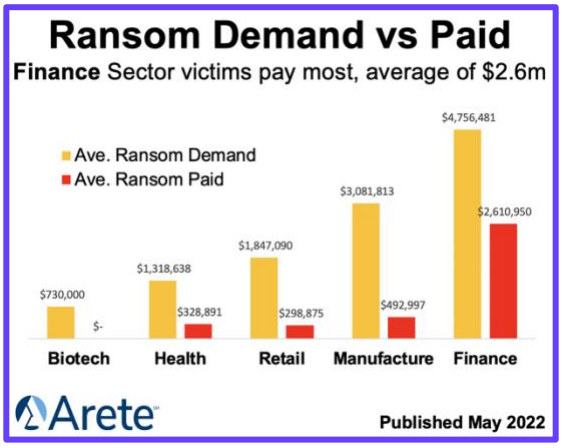

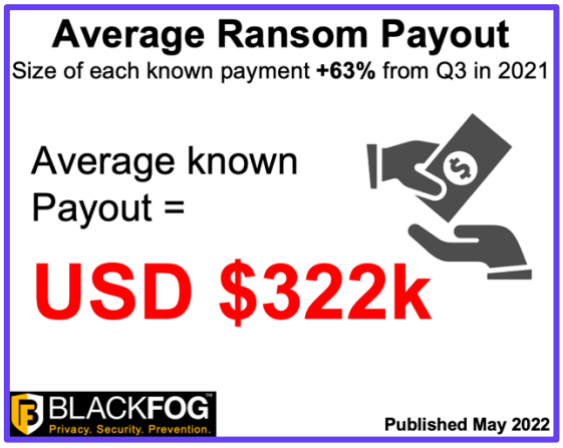

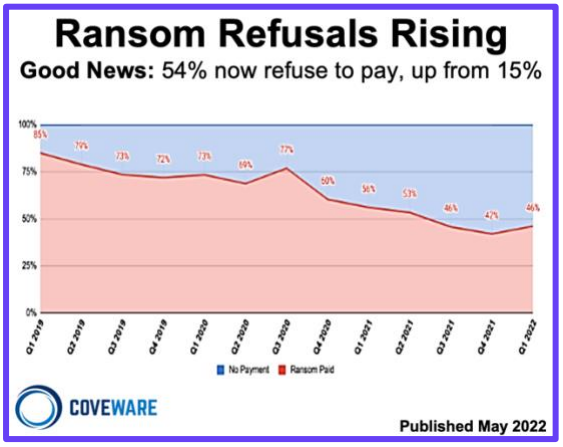

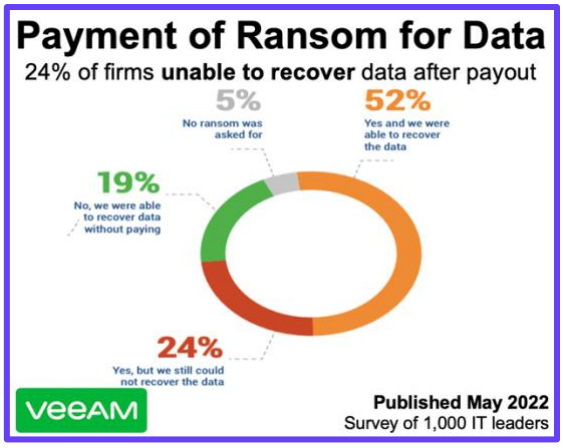

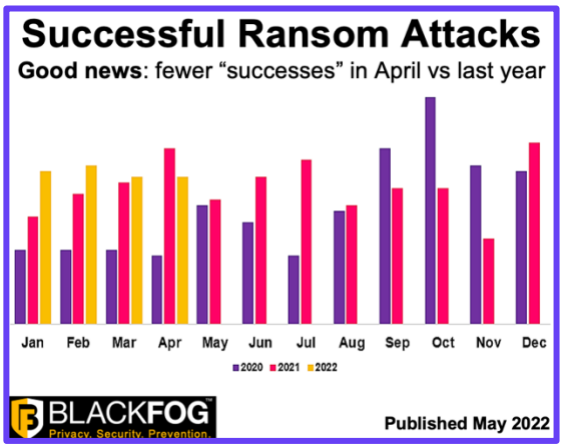

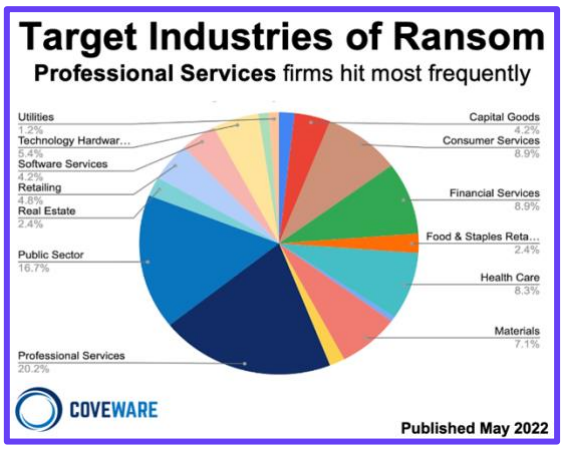

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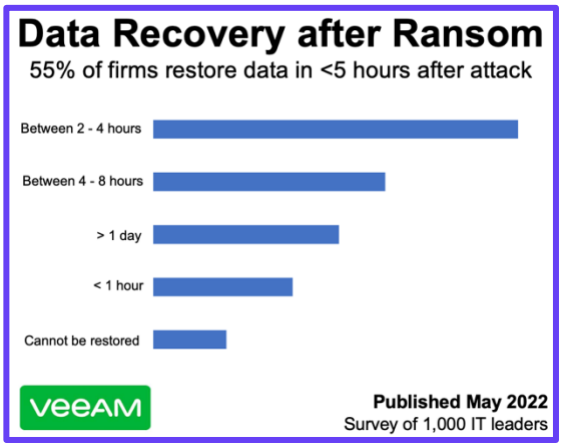

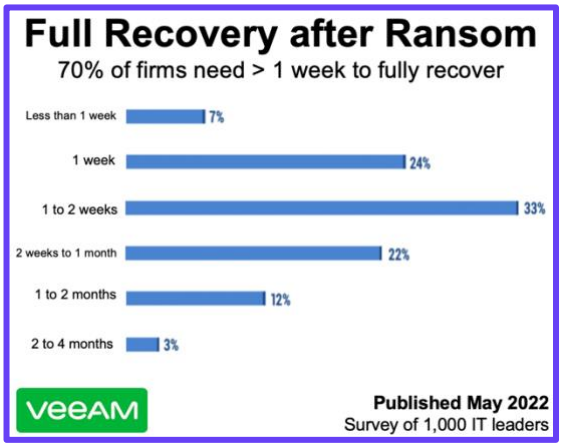

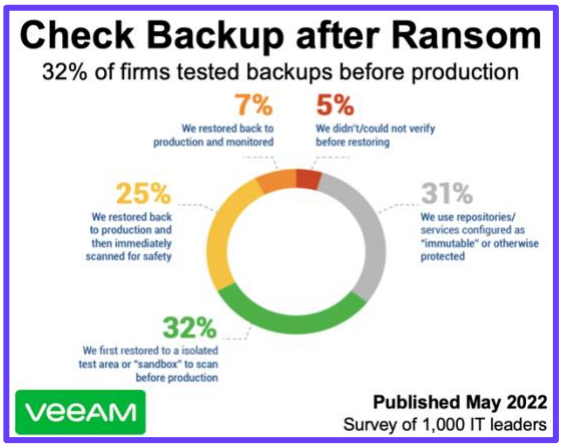

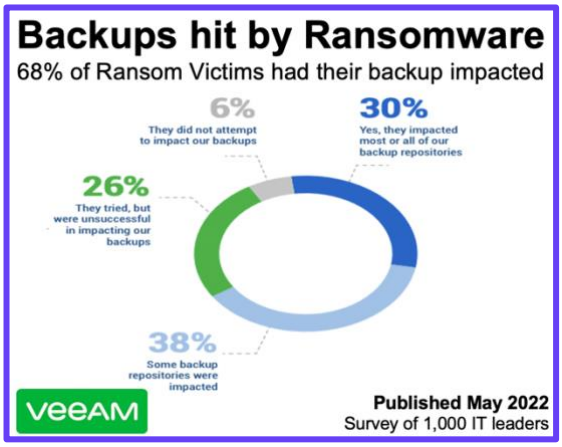

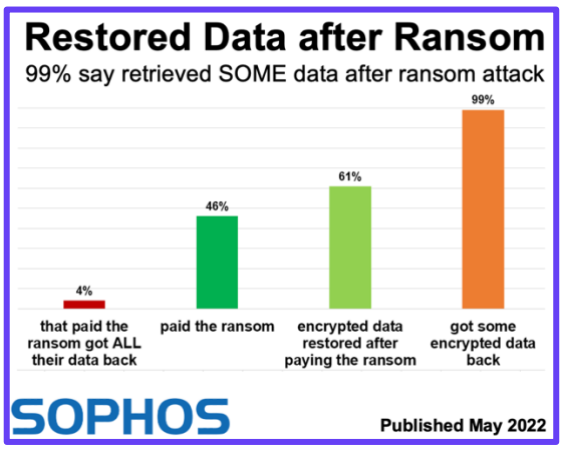

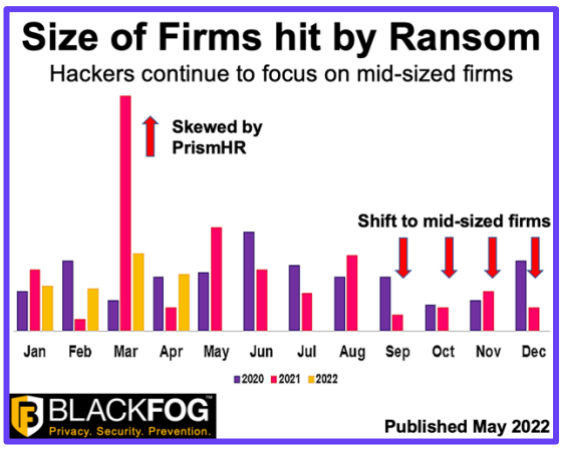

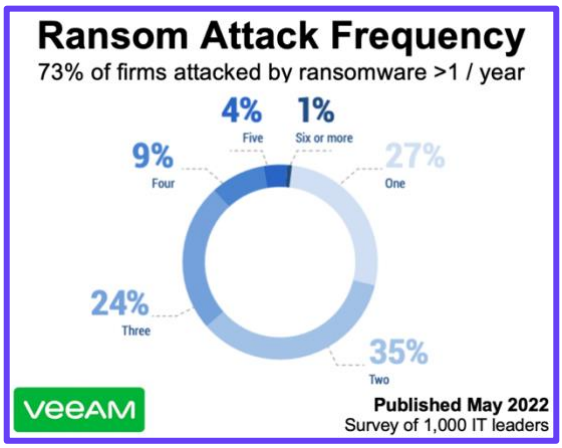

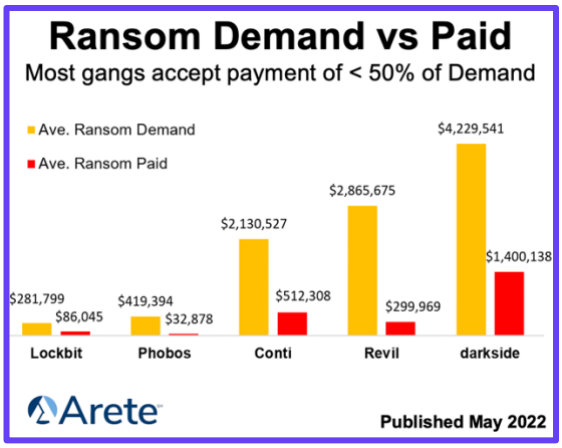

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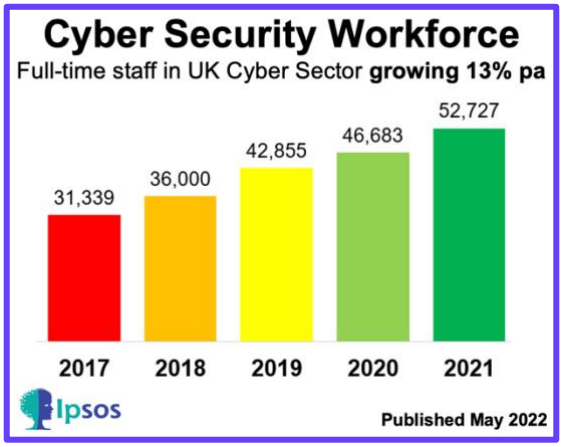

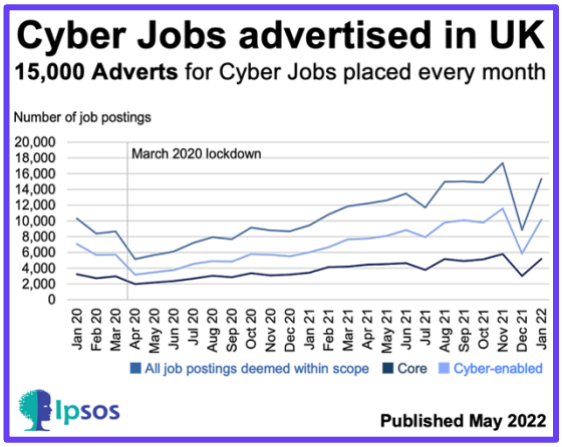

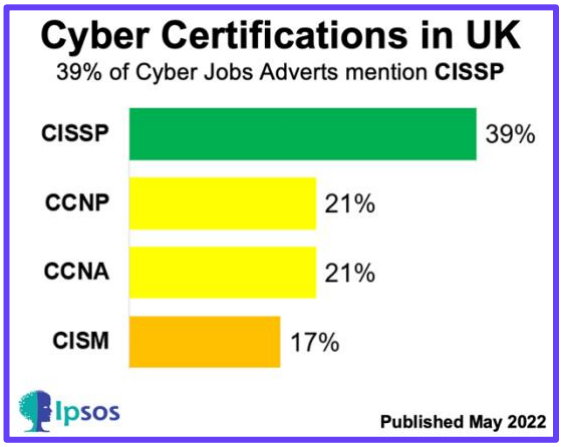

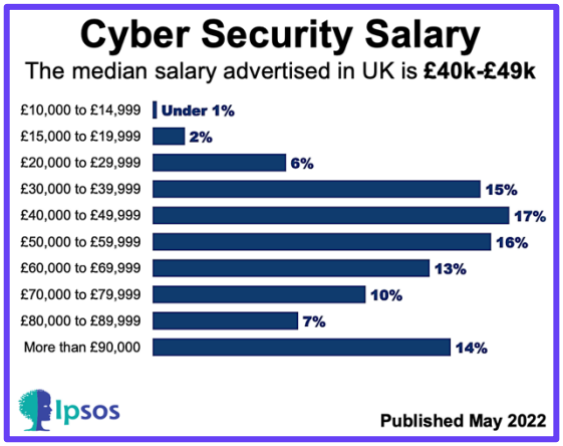

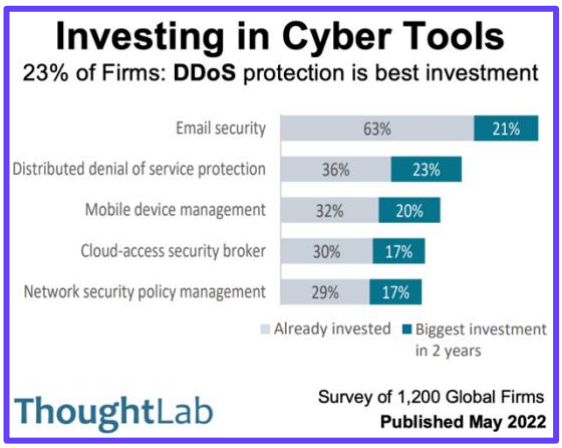

Cyber Insights: *Defence against Ransomware*

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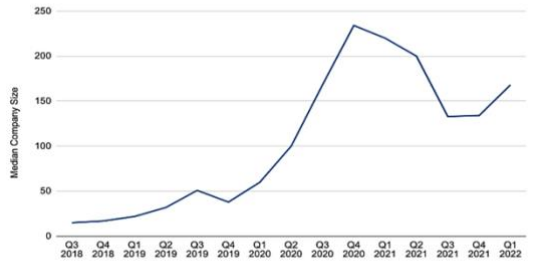
Size of Firms hit by Ransom

Typical Firm hit by Ransom now has about 170 staff



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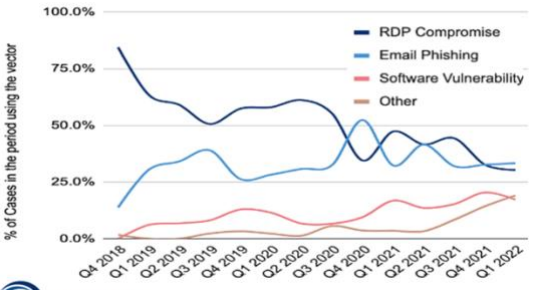
How Firms hit by Ransom

Email Phishing is now the top attack vector



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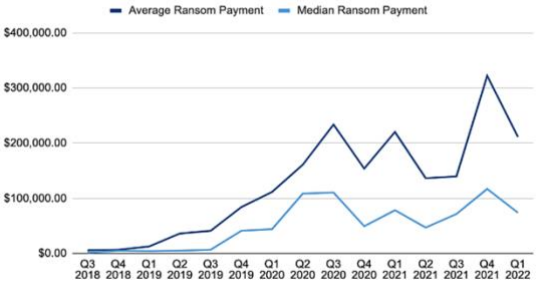
Typical Ransom Payments

Median Ransom actually Paid is about $80,000



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Top Ransomware Variants

Conti is still the most common ransomware variant

Rank	Ransomware Type	Market Share %
1	Conti V2	16.1%
2	LockBit 2.0	14.9%
3	BlackCat	7.1%
4	Hive	5.4%
5	AvosLocker	4.8%
6	Karakurt	4.1%

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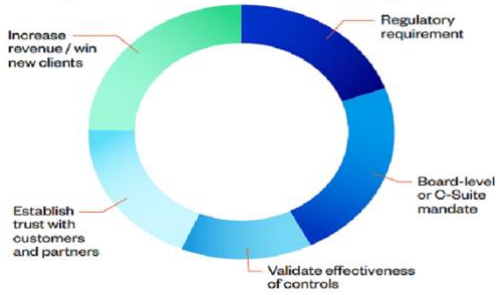
Cyber Security Compliance

Firms agree compliance will result in higher revenue



A-LIGN

Survey of 700 IT Professionals

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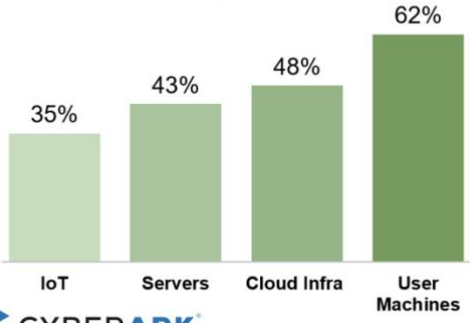
Cyber Security Controls

Security control mostly found in User machines

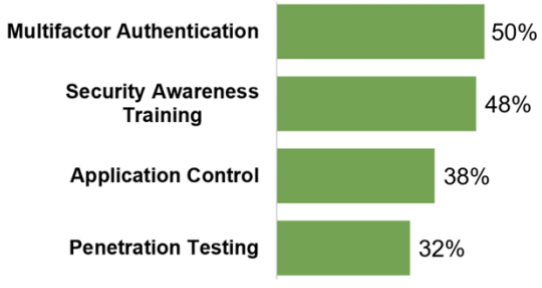


CYBERARK

Published May 2022

Effective Ransom Defense

Multifactor Authentication tops the chart at 50%



CYBERARK

Published May 2022

Top Investments for Security

Investments made by Firms with No Breaches

#1 = Email Security, eg MFA

#2 = Protect against Denial of Service

#3 = Cloud Access Security Broker

#4 = Network Security Policy Mgmt

#5 = Identity & Access Mgmt

ThoughtLab

Survey of 1,200 Global Firms

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Cyber Insights: *Ransomware Statistics*

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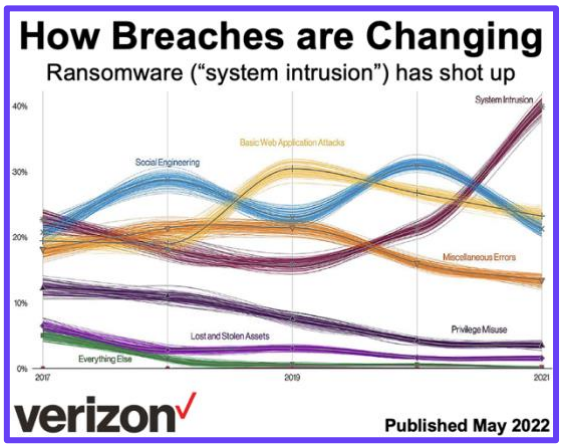

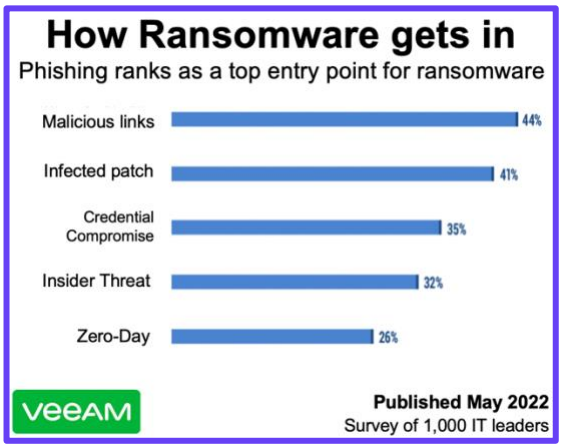

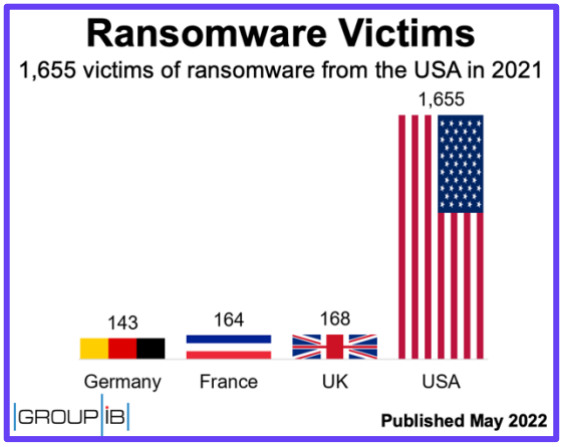

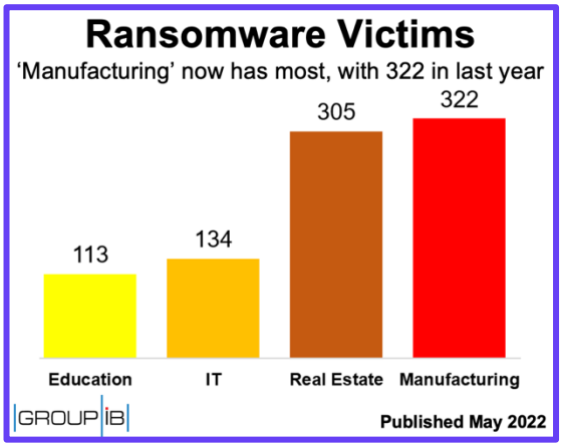

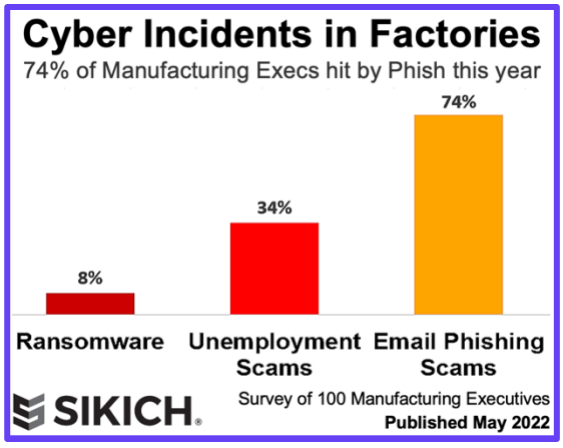

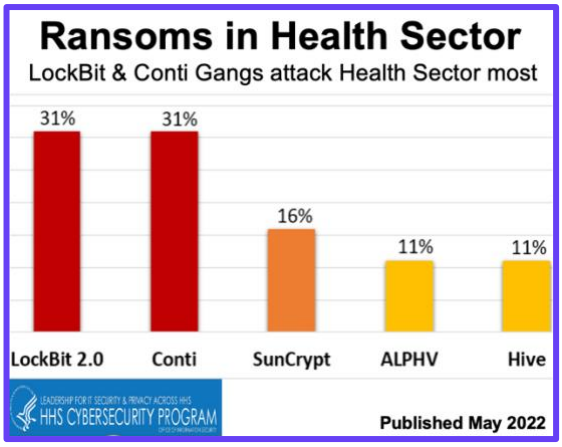

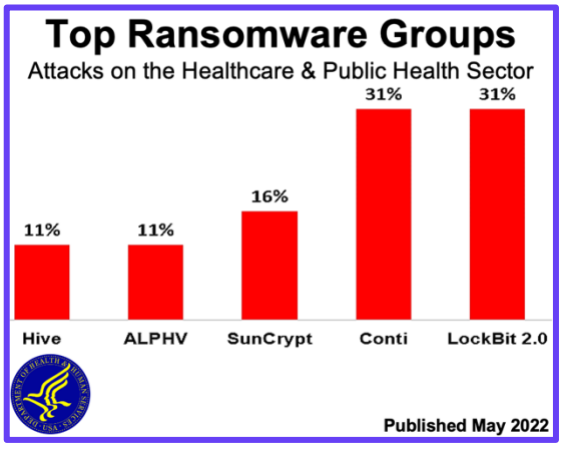

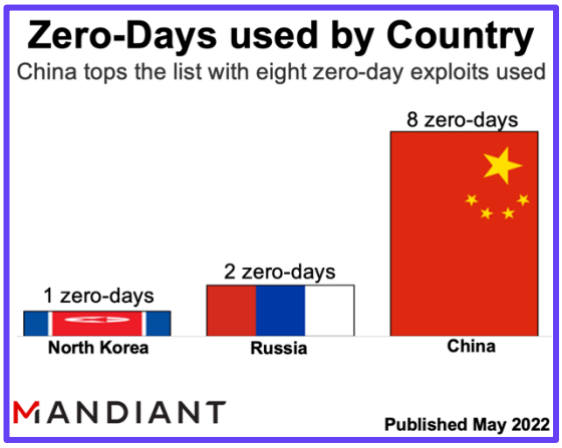

Cyber Insights: *Cyber Risk & Confidence*

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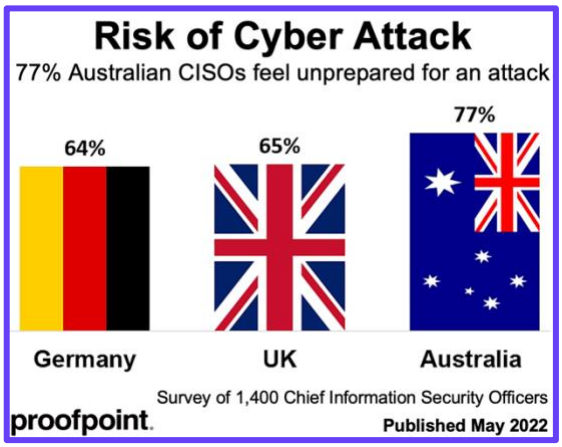

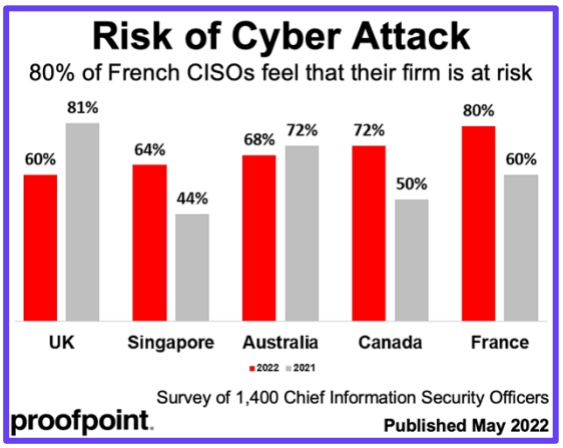

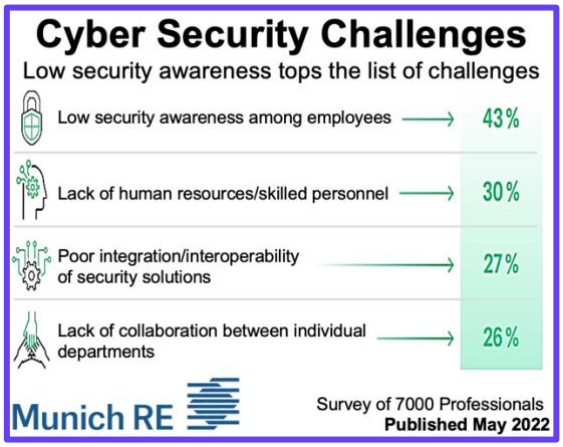

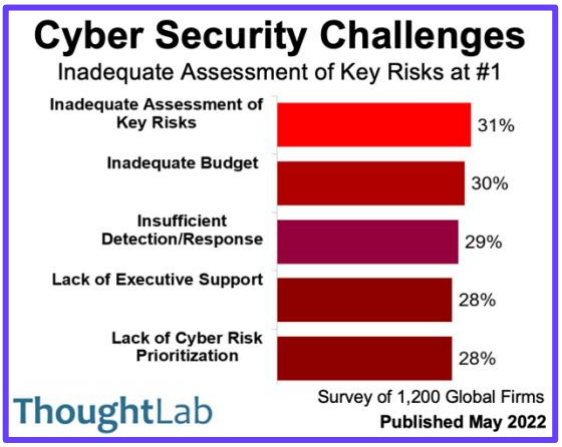

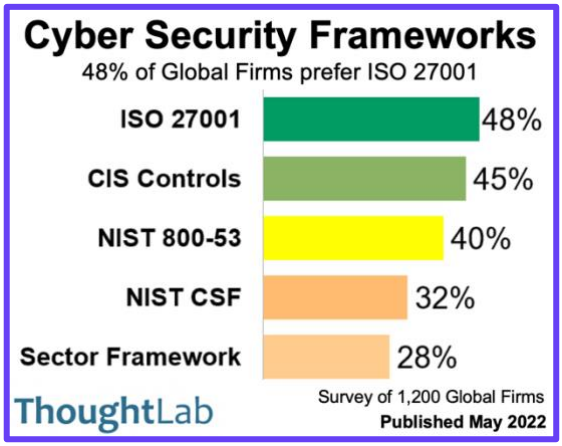

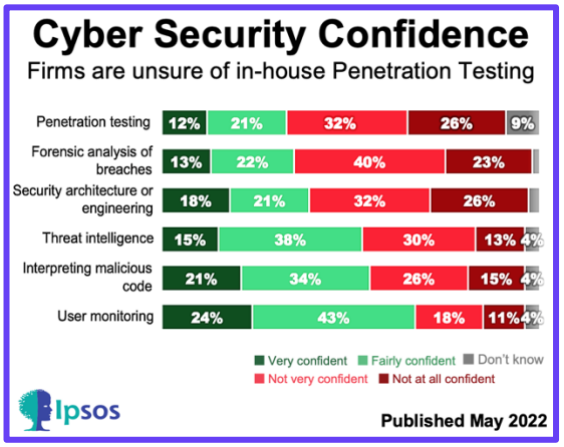

Cyber Insights: *Threats & Strategies*

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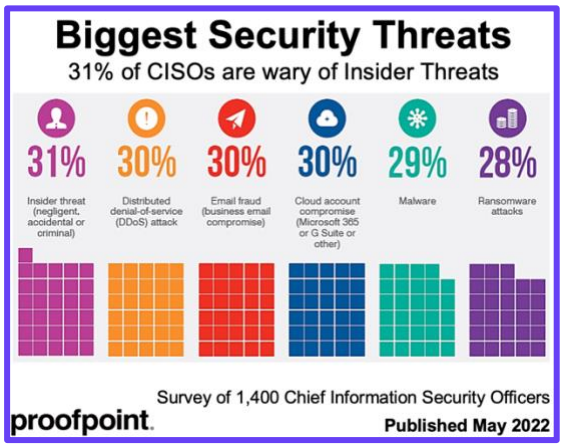

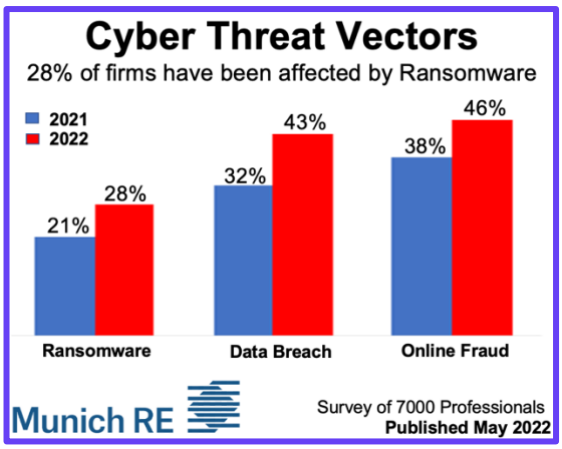

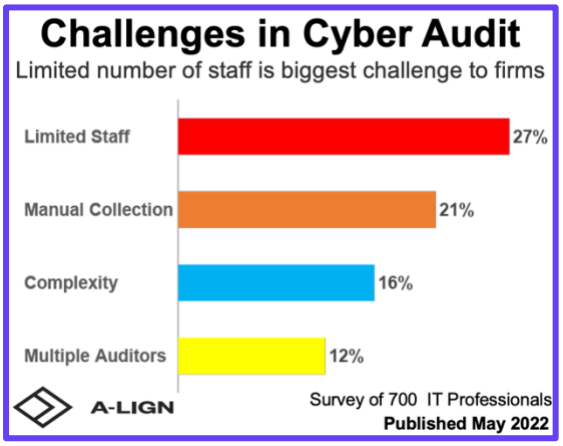

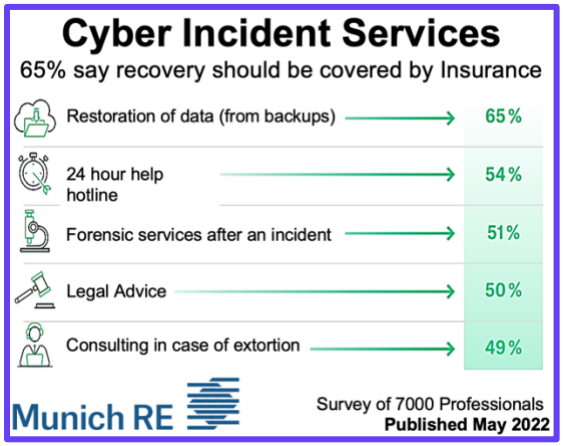

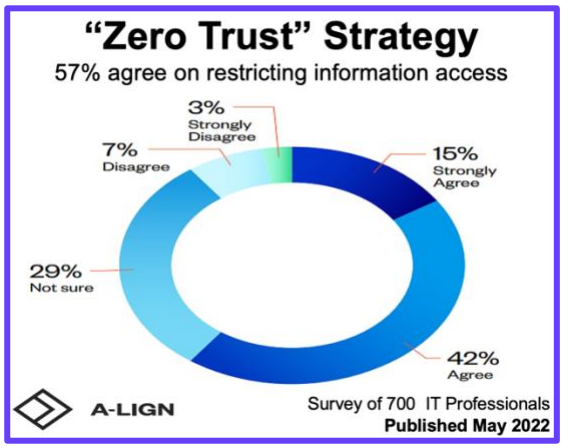

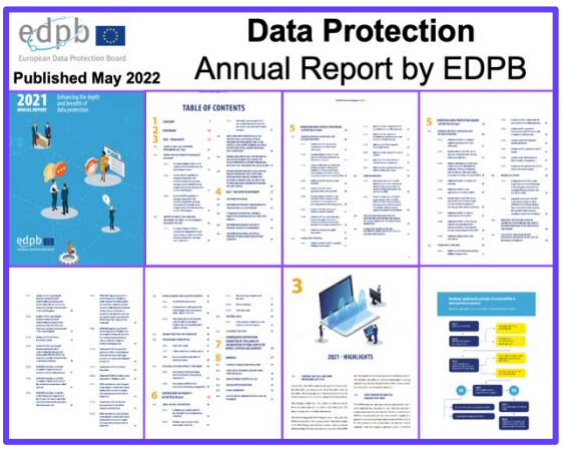

Cyber Insights: *Malware & Phishing*

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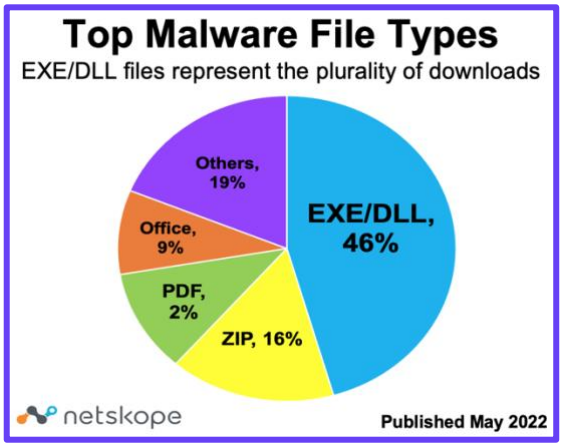

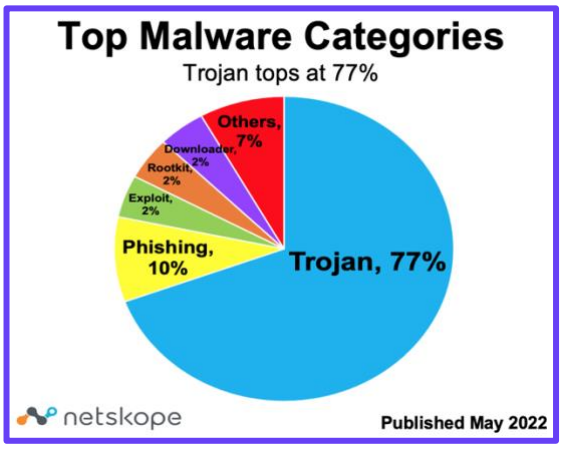

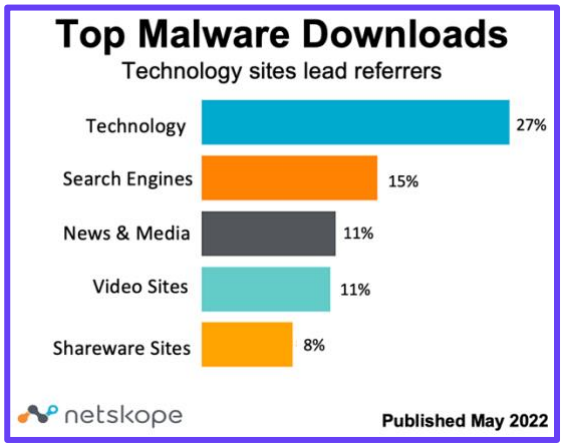

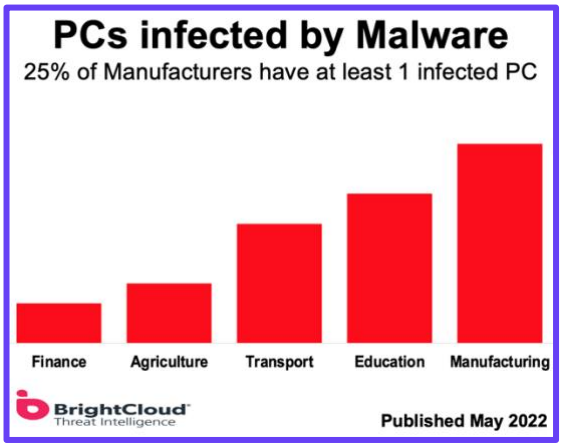

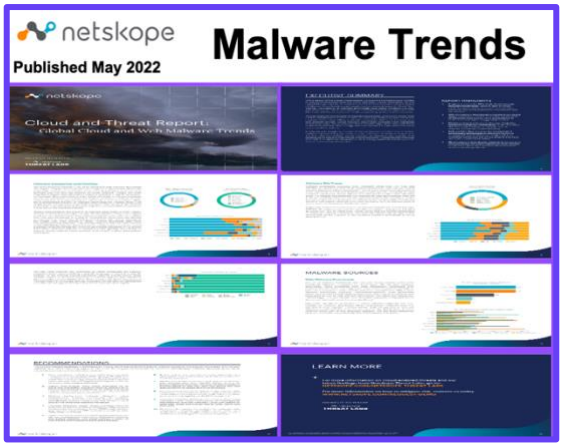

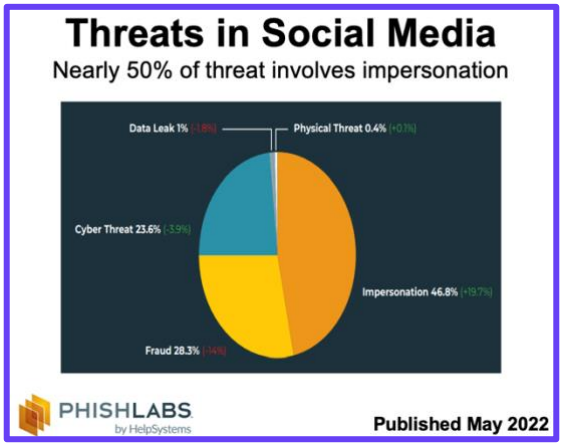

Cyber Insights: *Maturity of Response*

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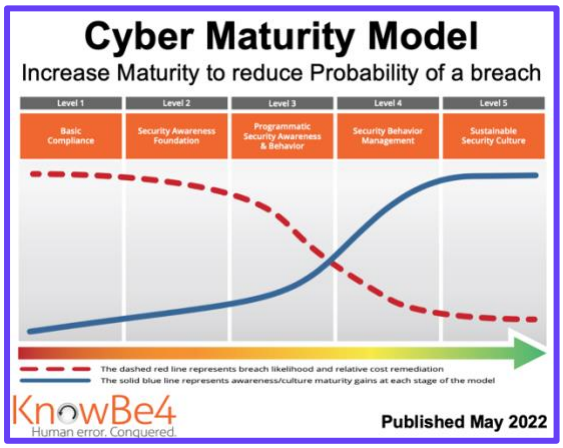

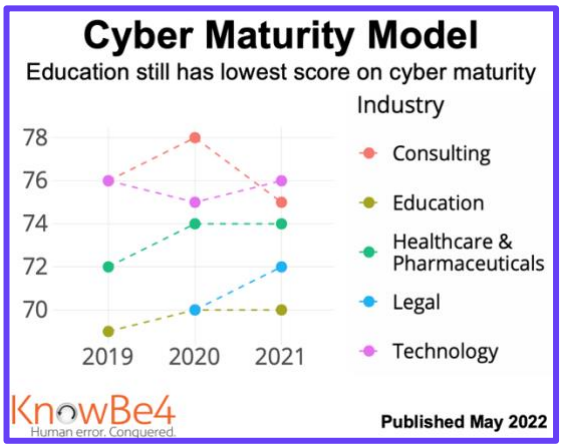

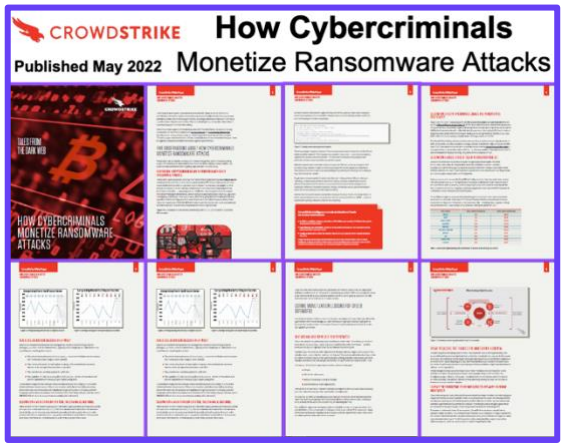

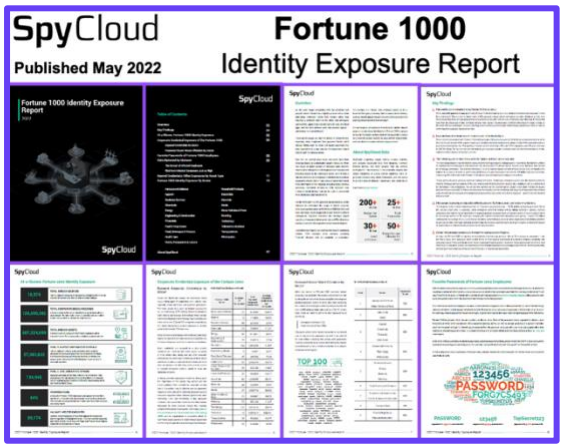

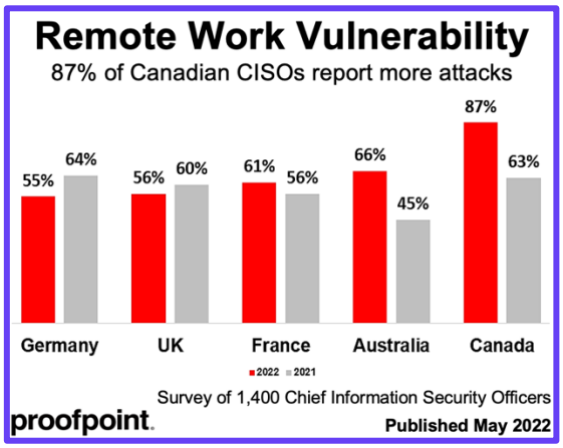

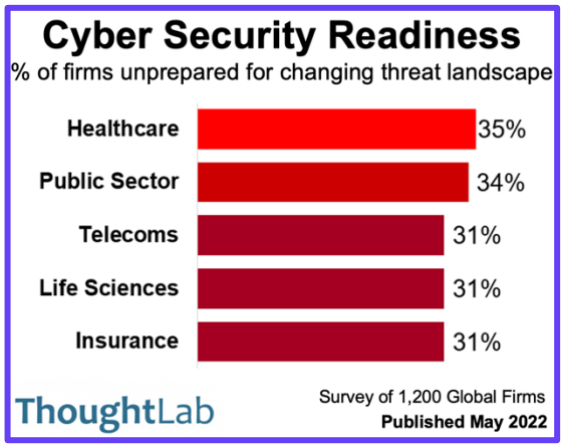

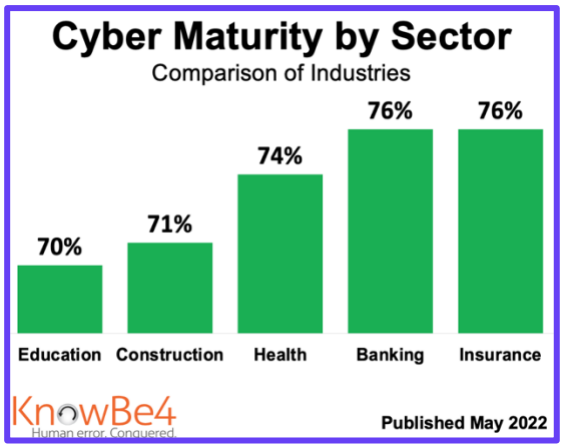

Cyber Insights: *Attack Trends*

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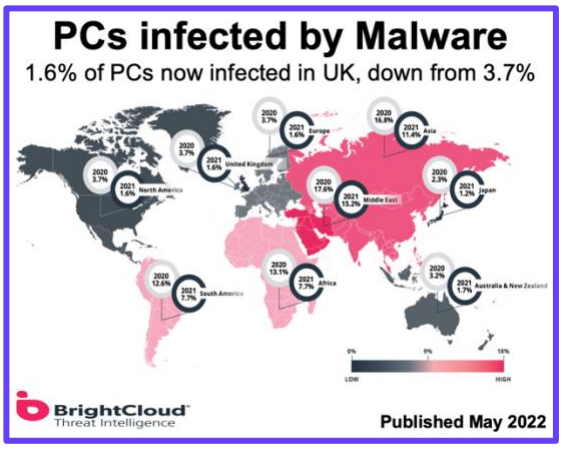

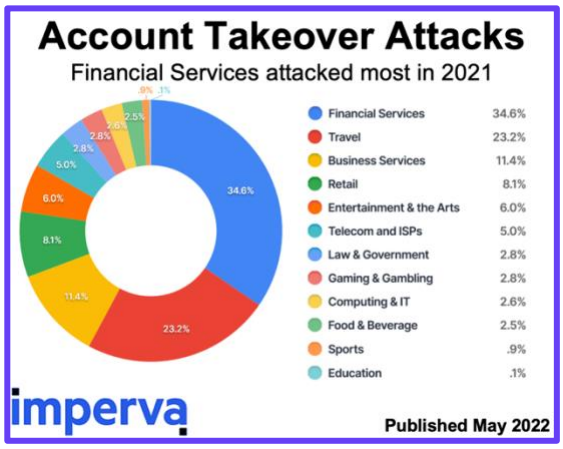

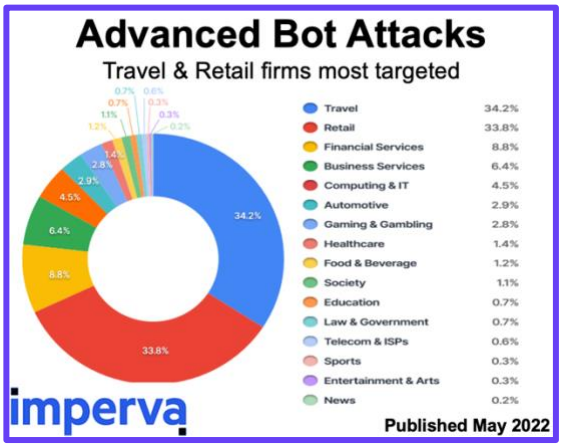

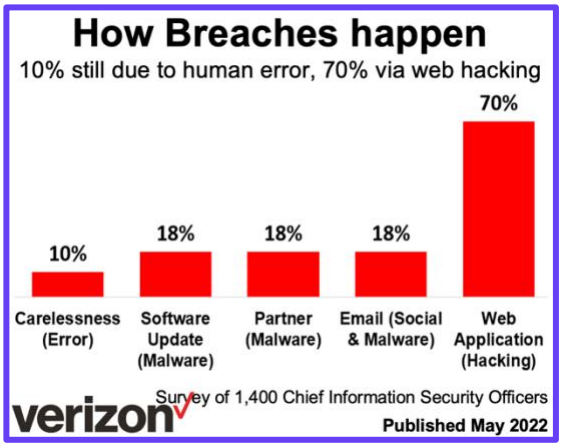

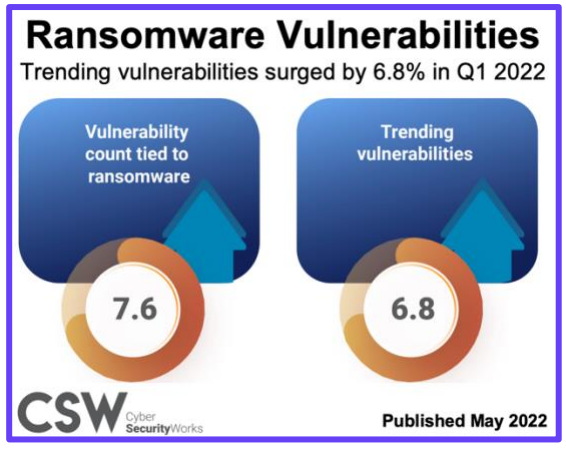

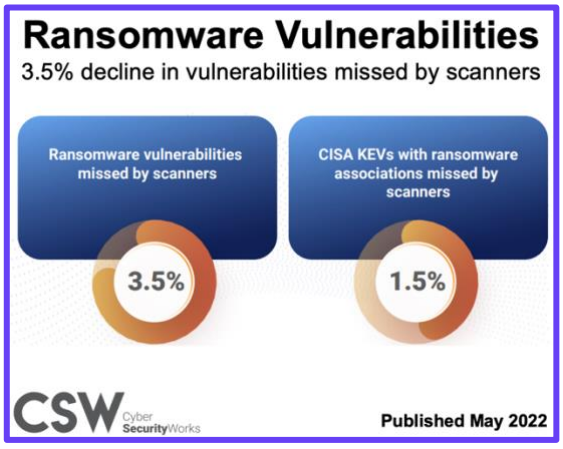

Cyber Insights: *Further Reports & Insights*

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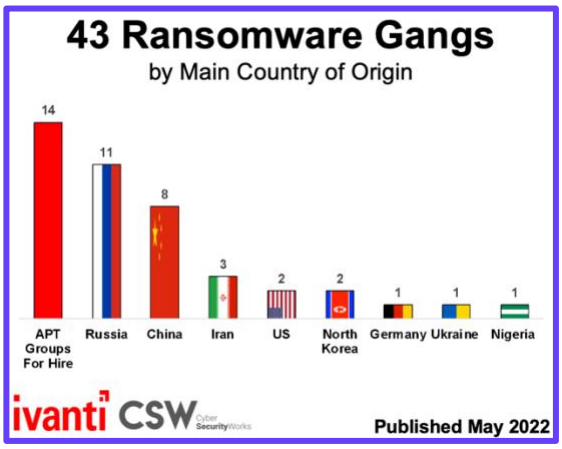

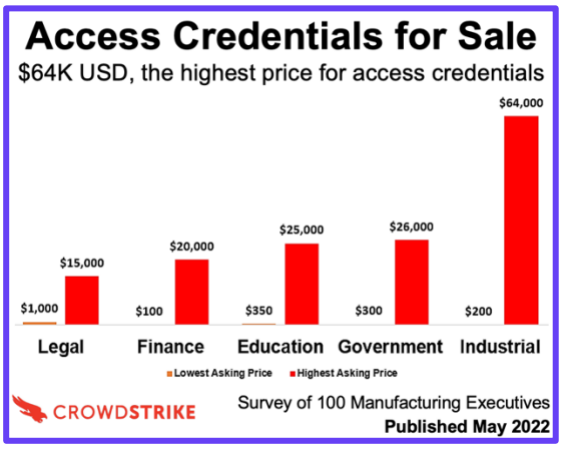

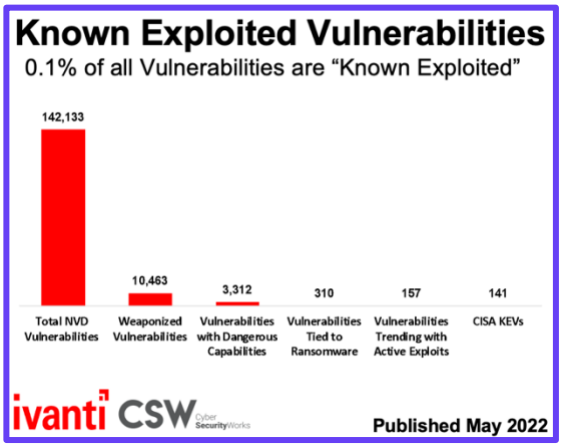

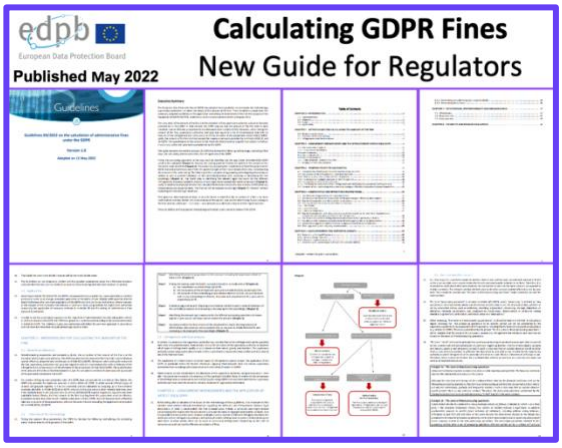

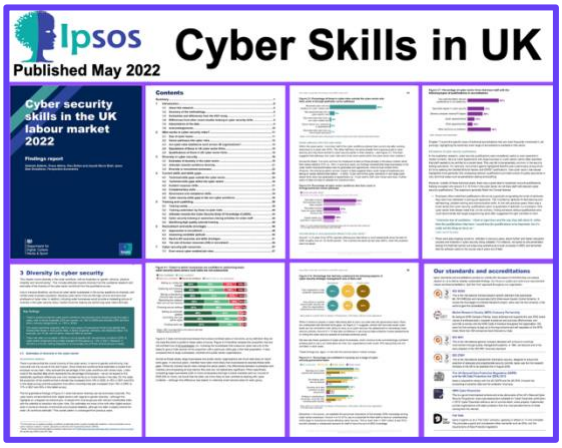

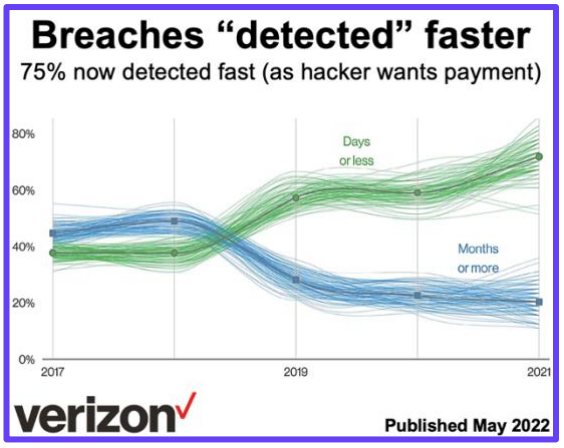

Best Cyber Insights of 2022

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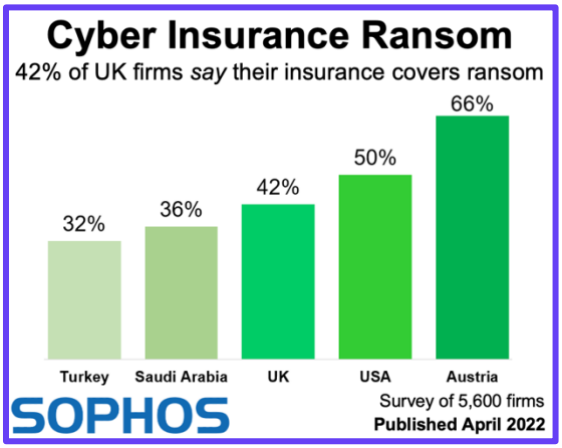

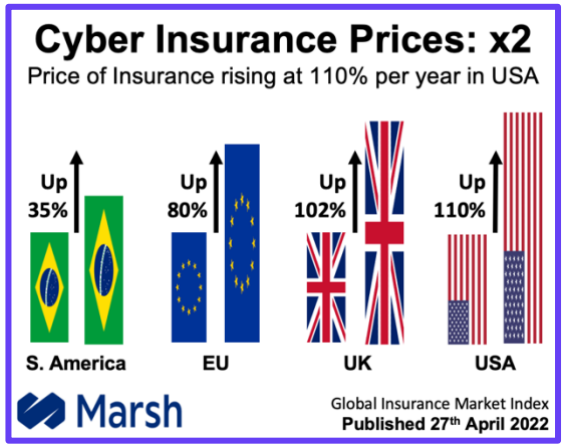

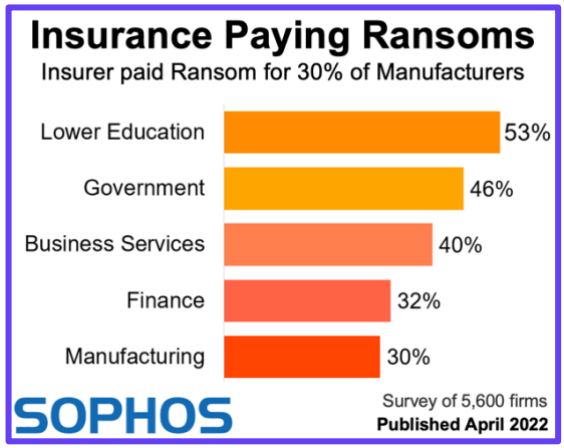

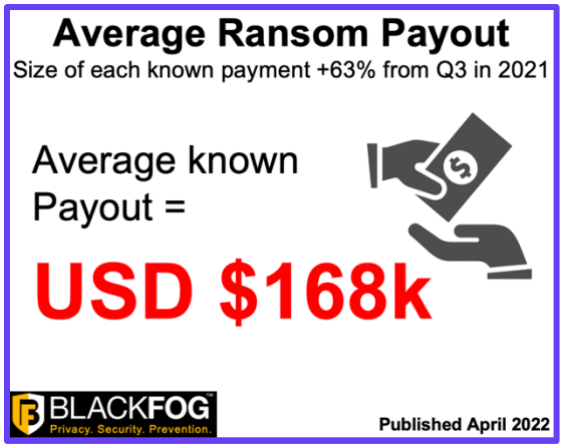

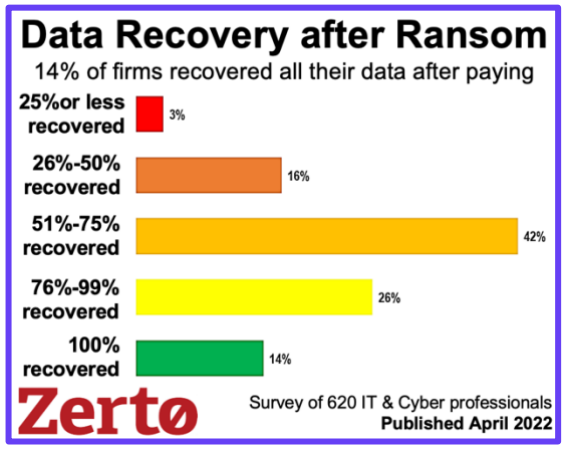

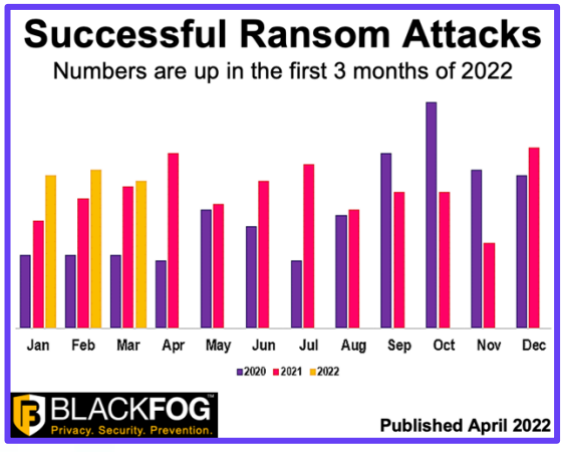

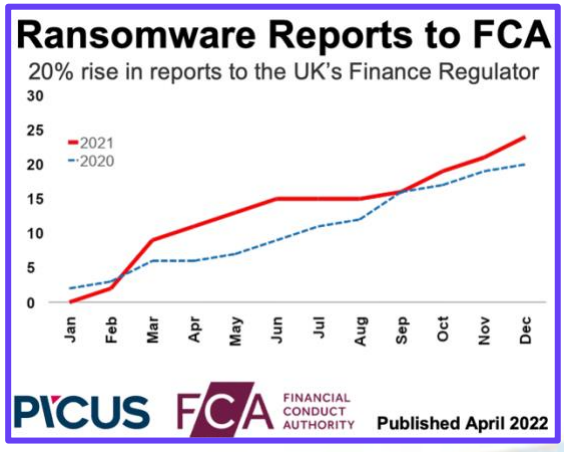

Cyber Insights: *Ransoms & Suppliers*

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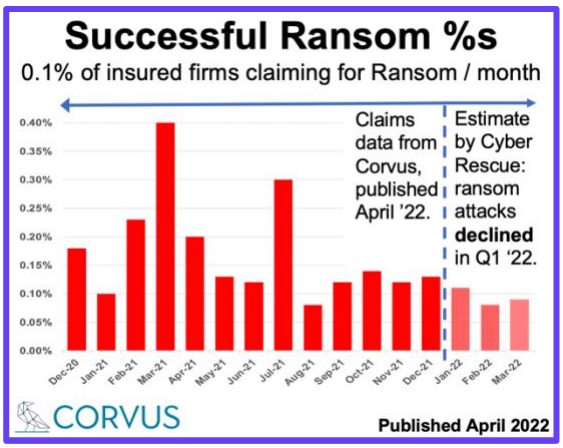

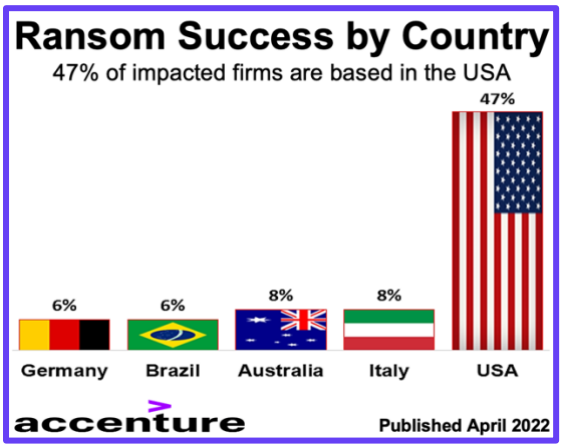

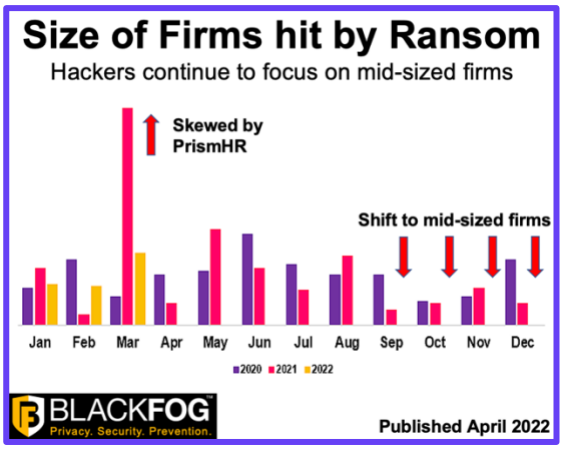

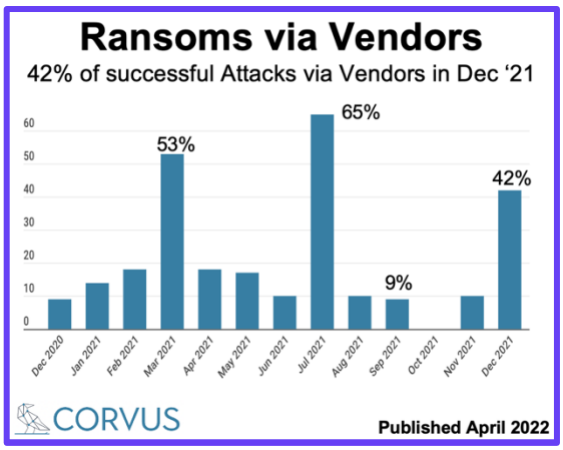

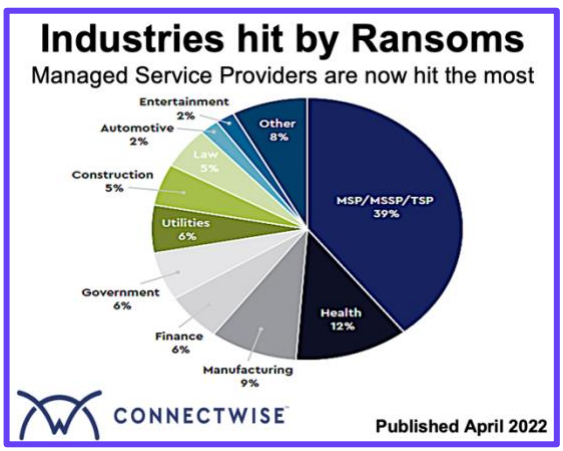

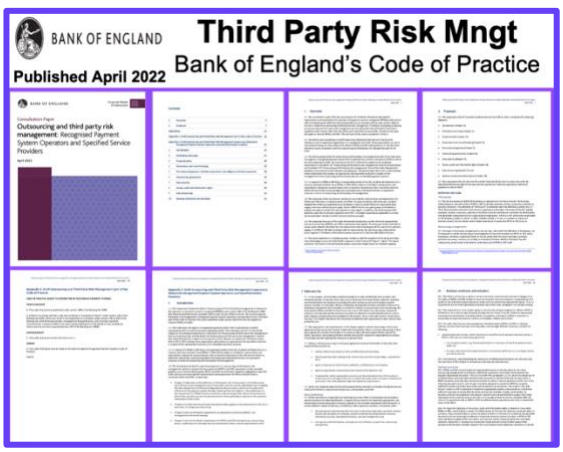

Cyber Insights: *Investment for Resilience*

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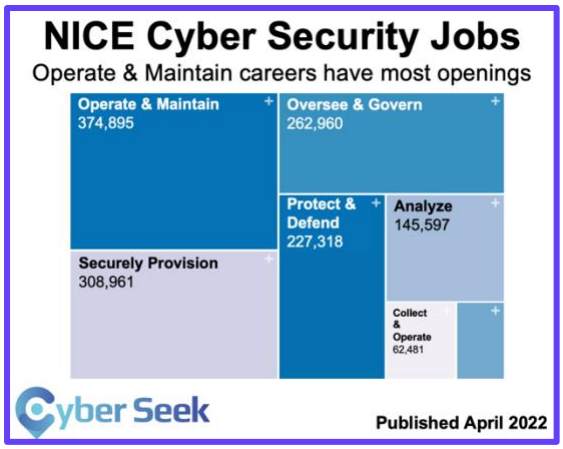

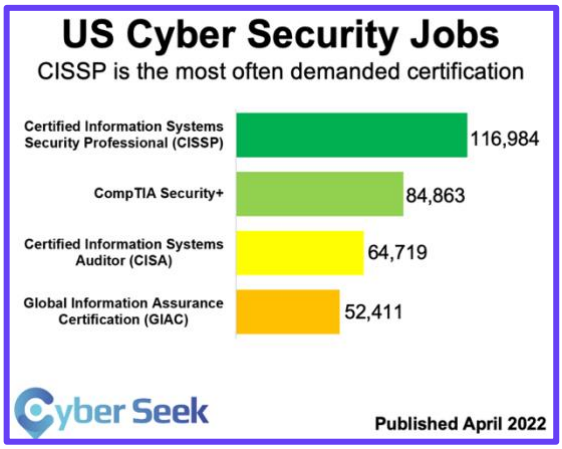

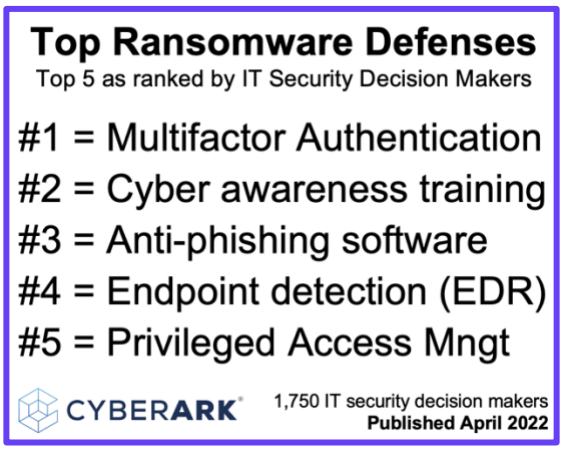

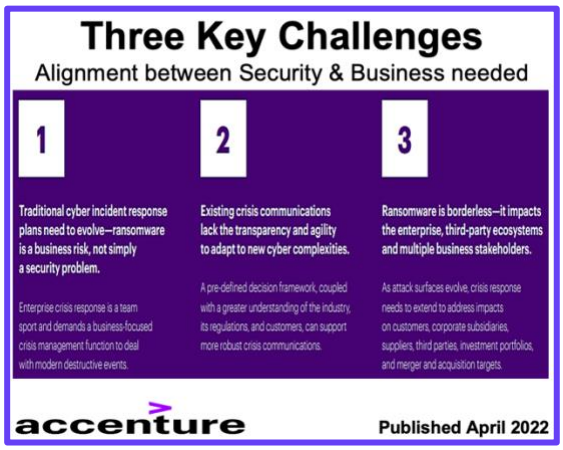

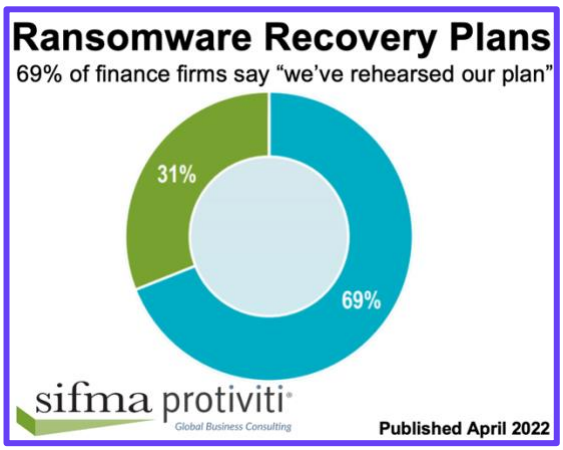

Cyber Insights: *Significance & Impact*

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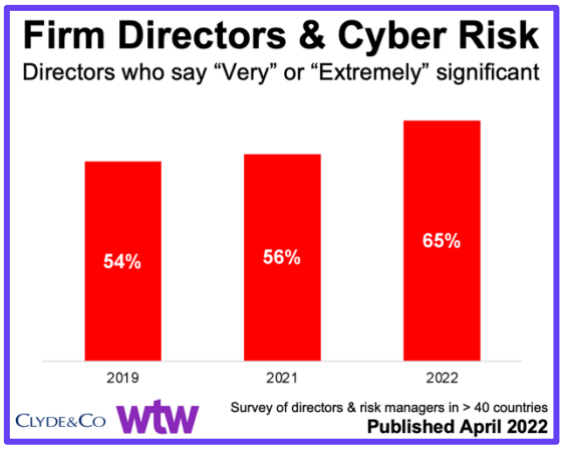

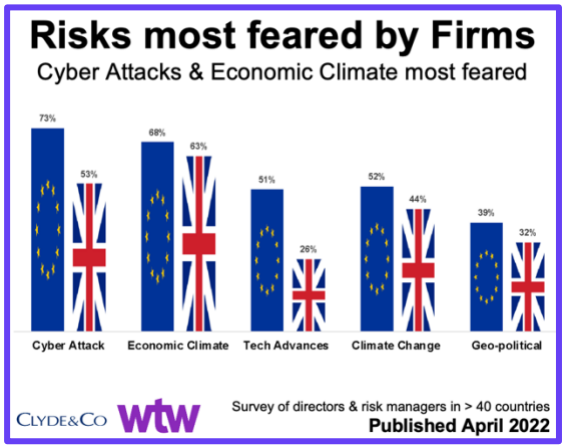

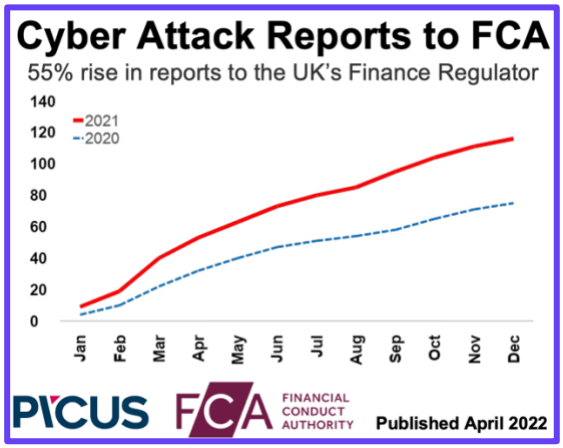

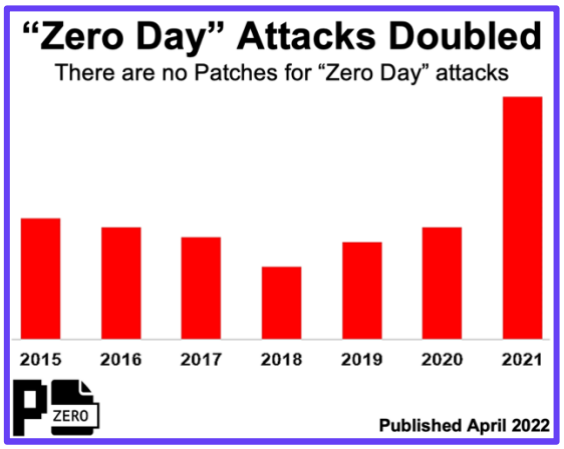

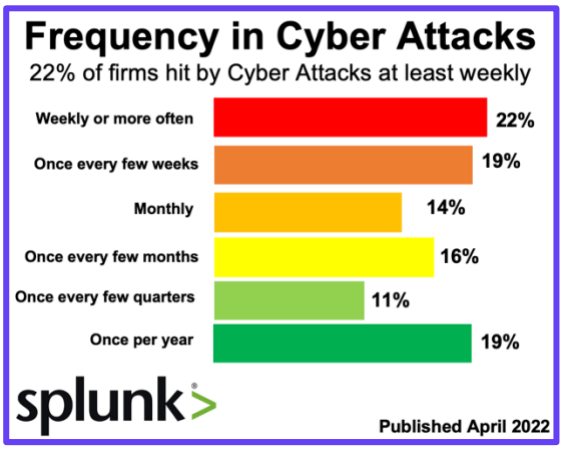

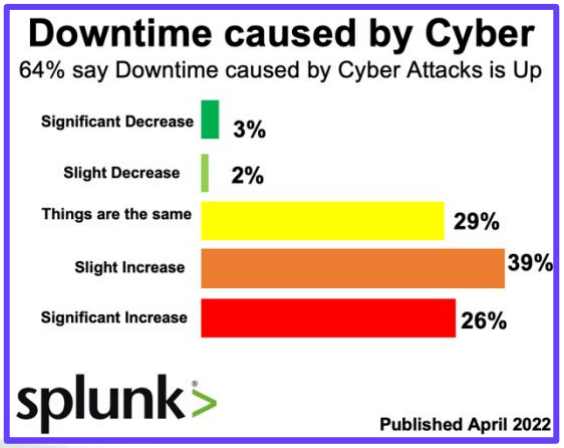

4. Cyber Insights: *Vulnerabilities & Attackers*

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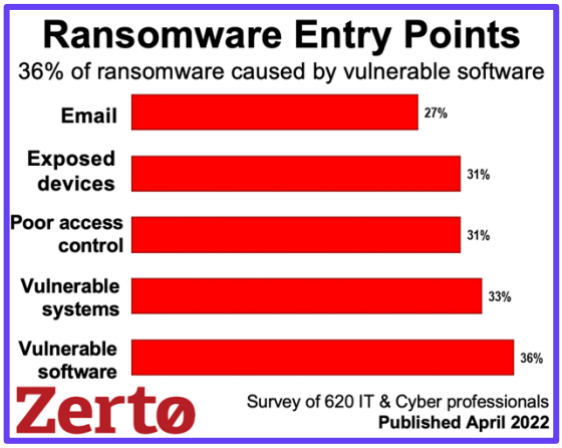

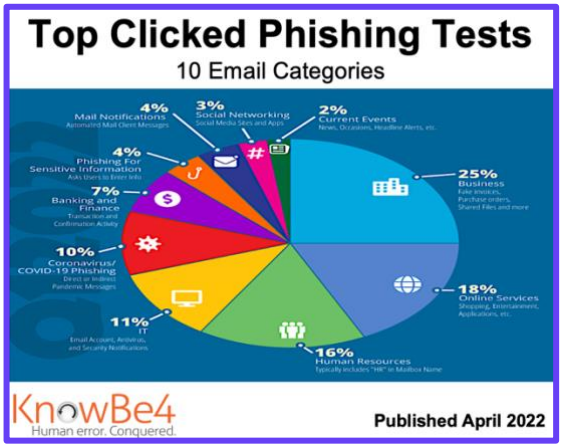

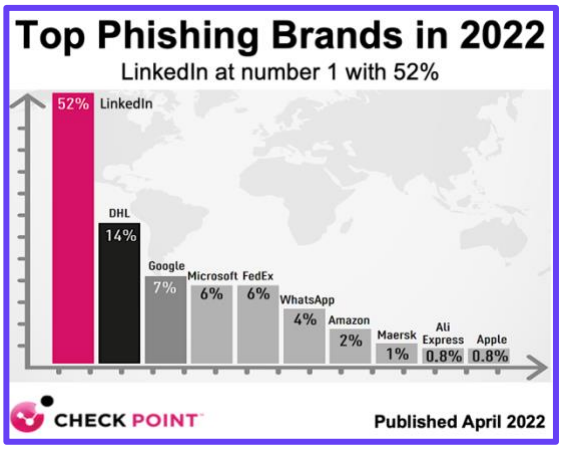

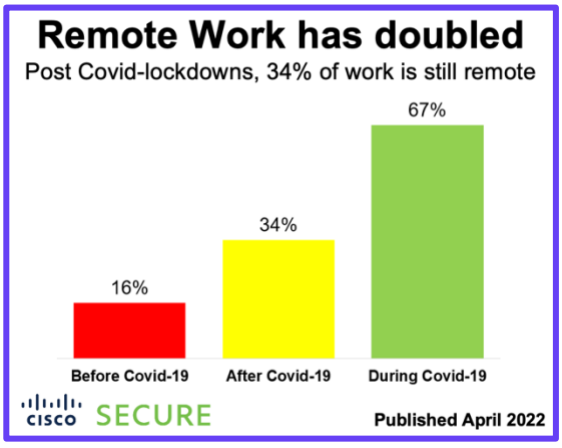

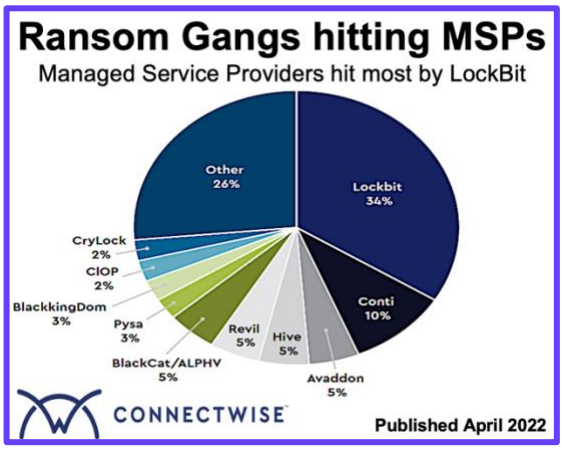

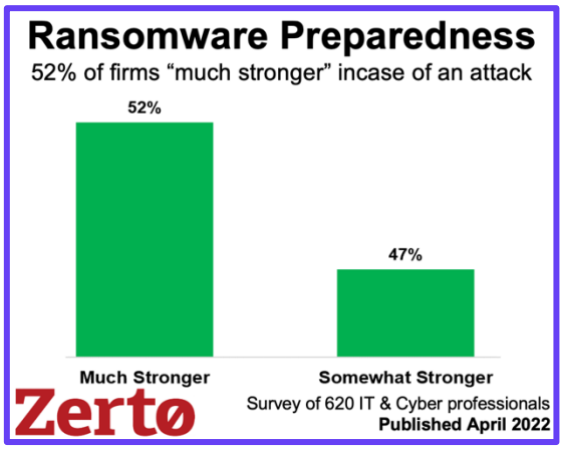

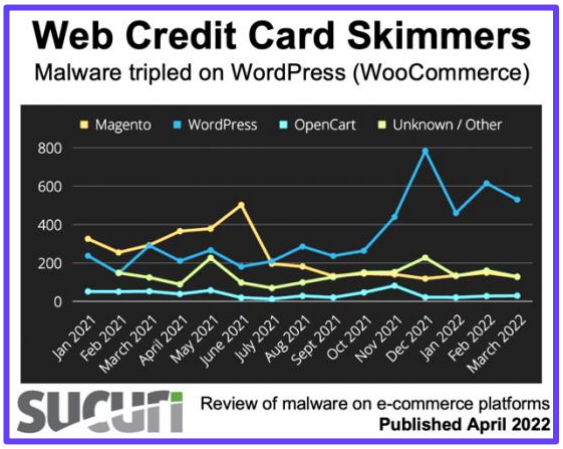

4. Cyber Insights: *Ransom Attacks*

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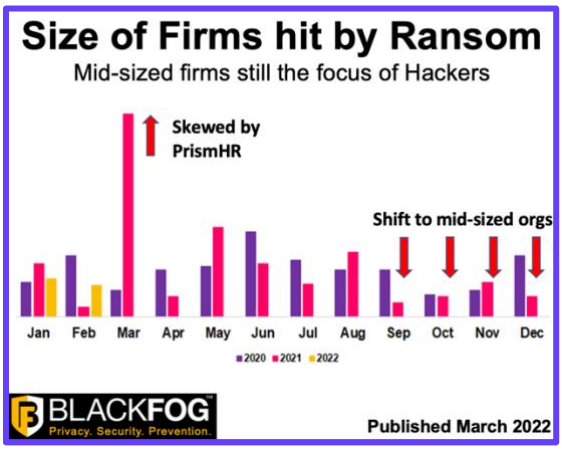

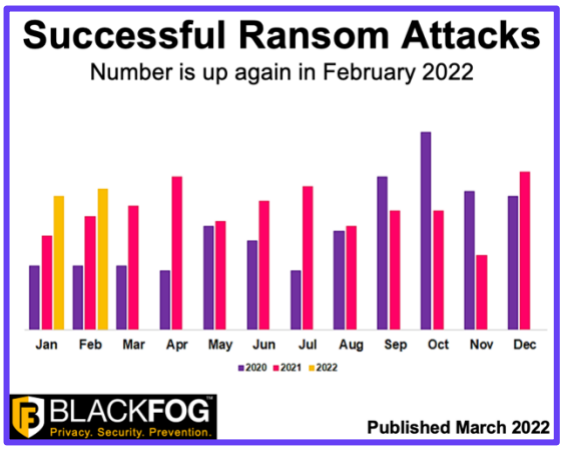

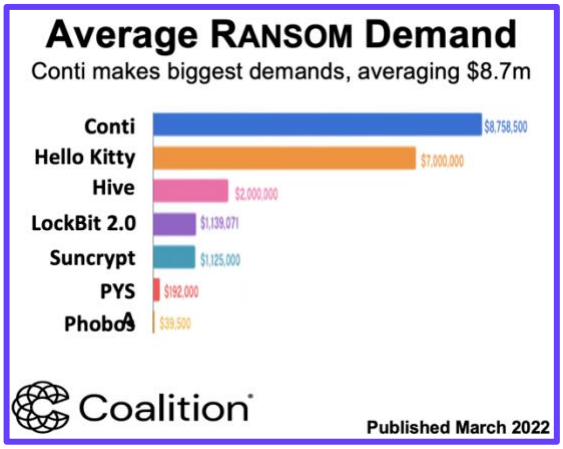

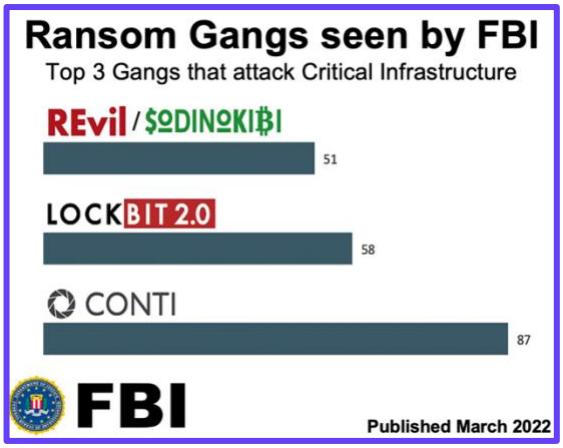

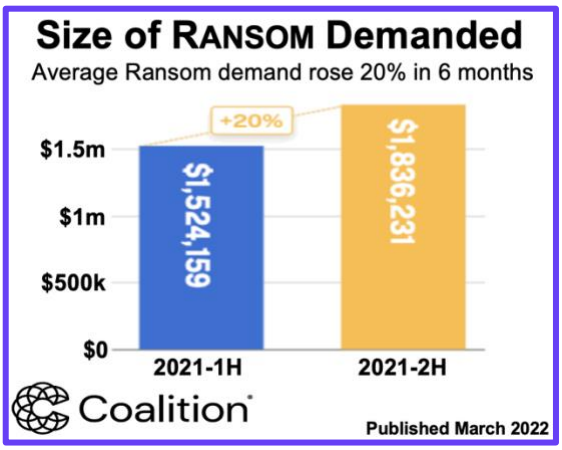

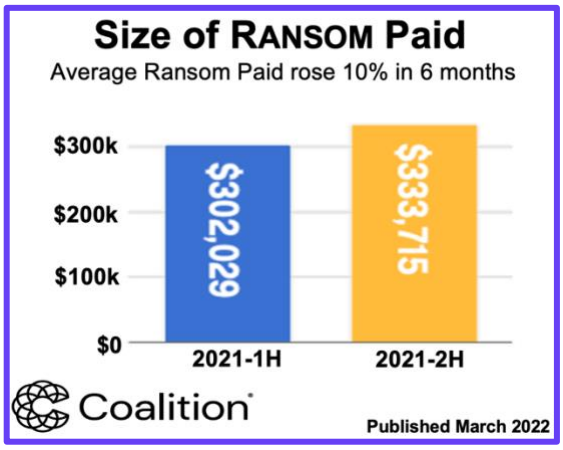

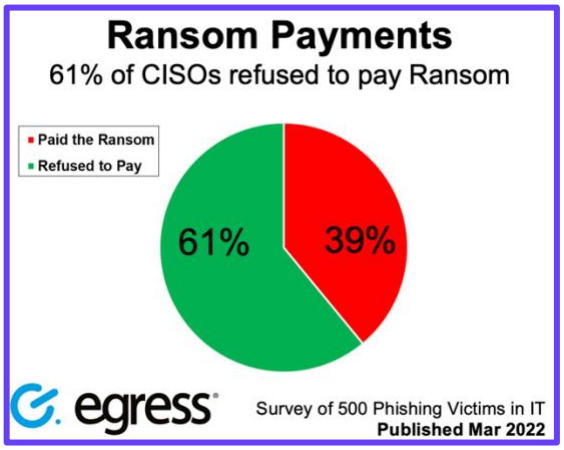

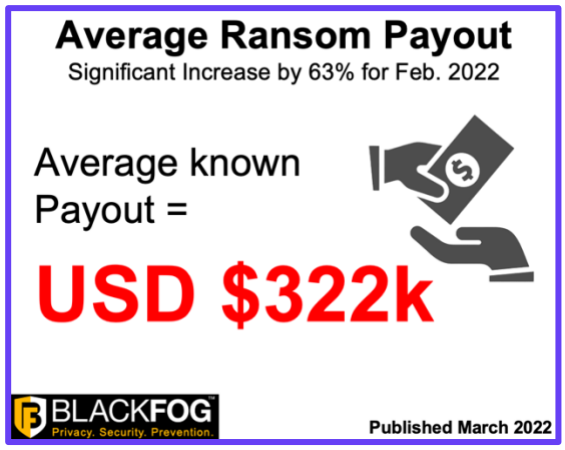

4. Cyber Insights: *Insurance and Investments*

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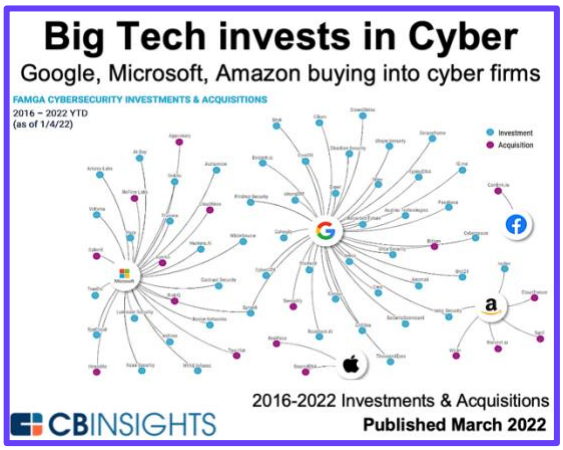

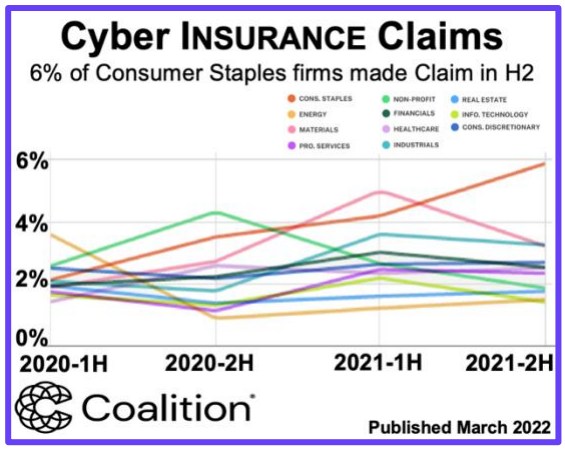

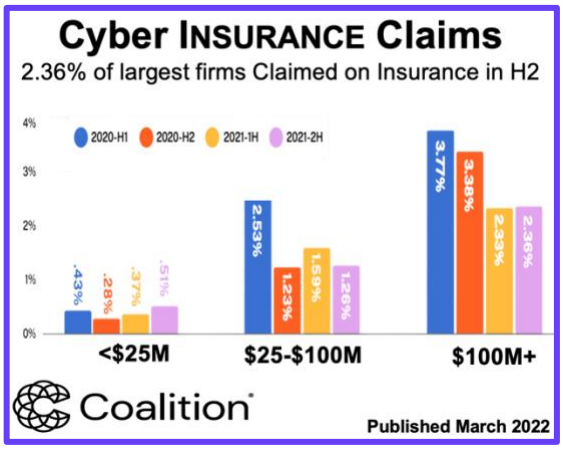

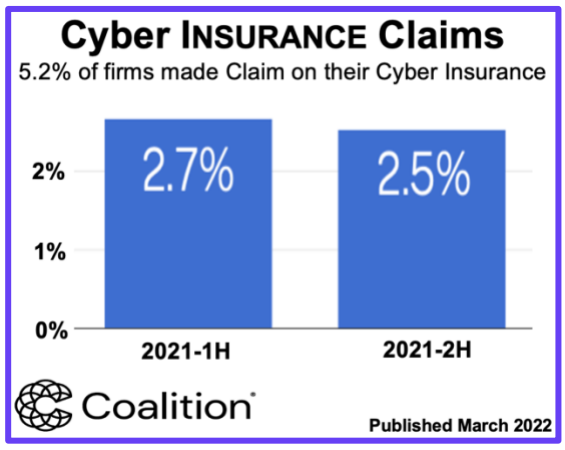

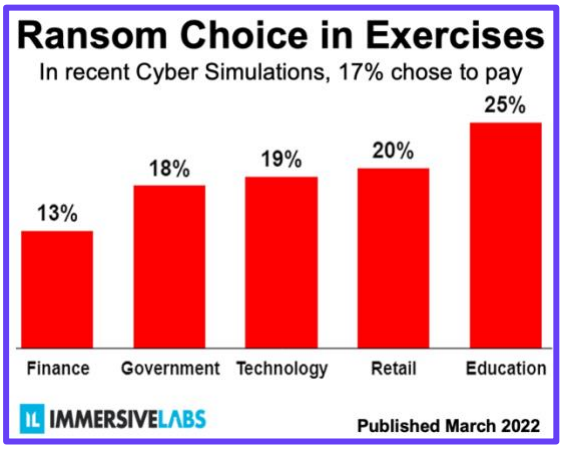

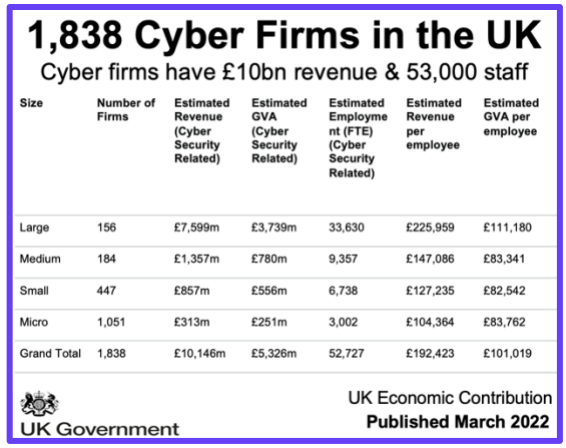

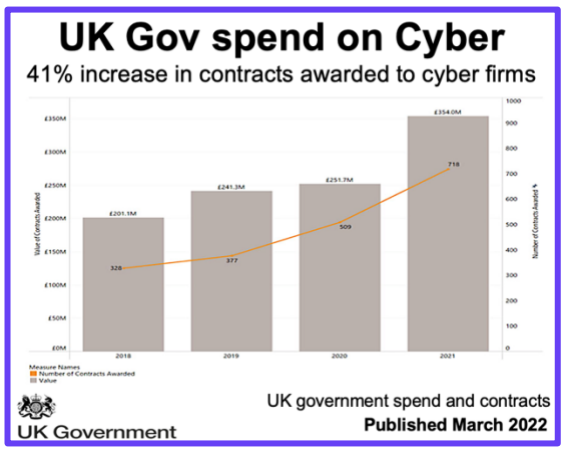

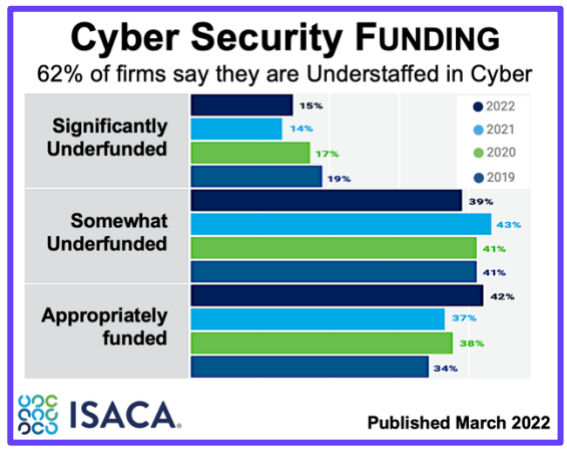

4. Cyber Insights: *Attacks and Techniques*

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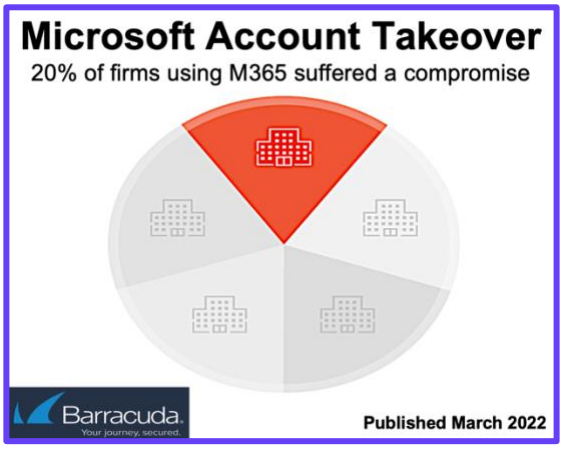
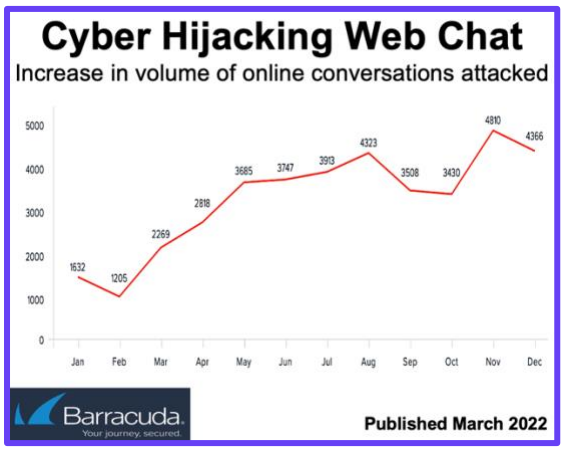
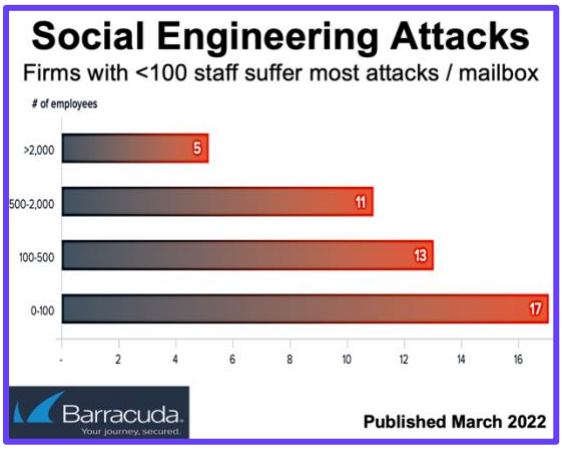
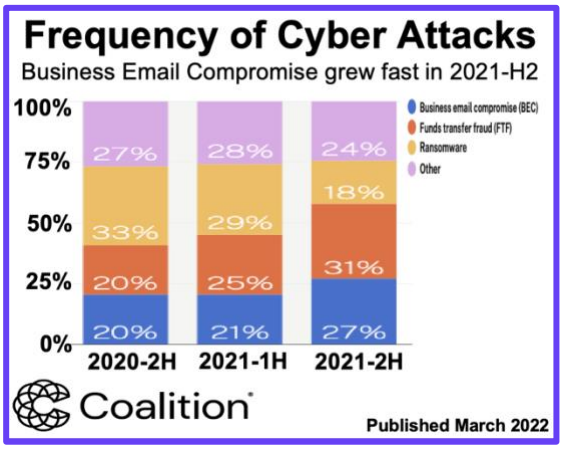
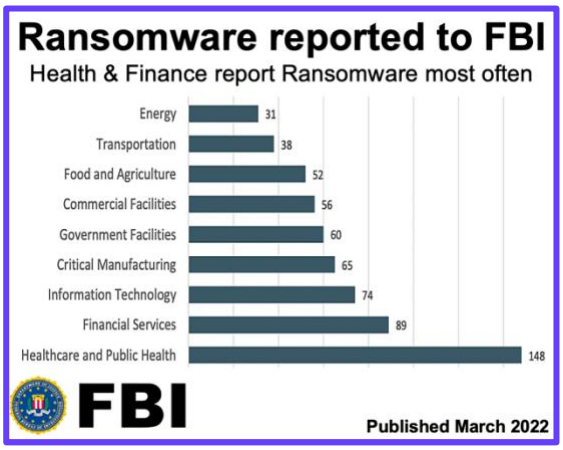
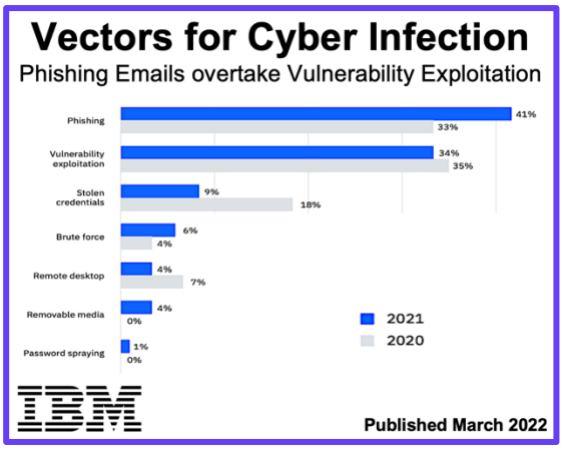


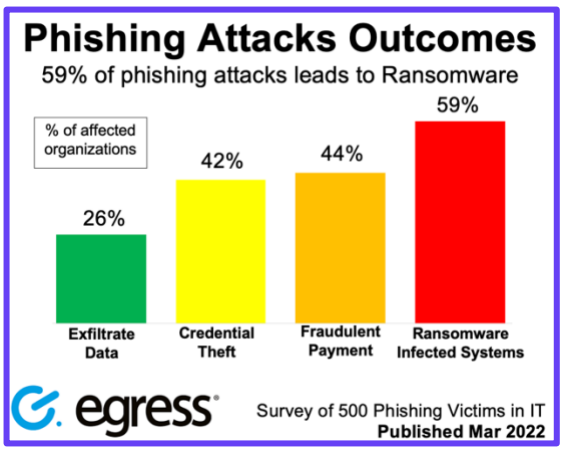






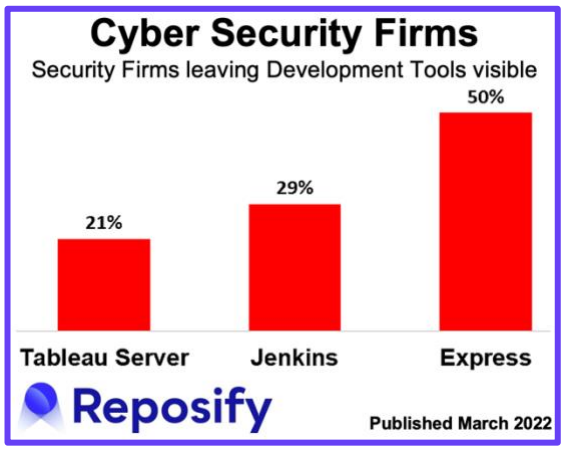


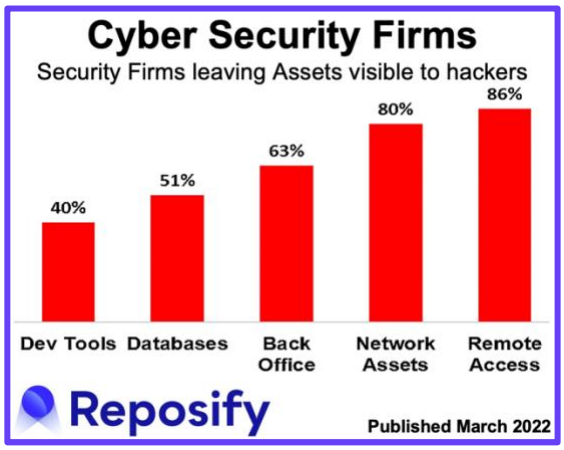


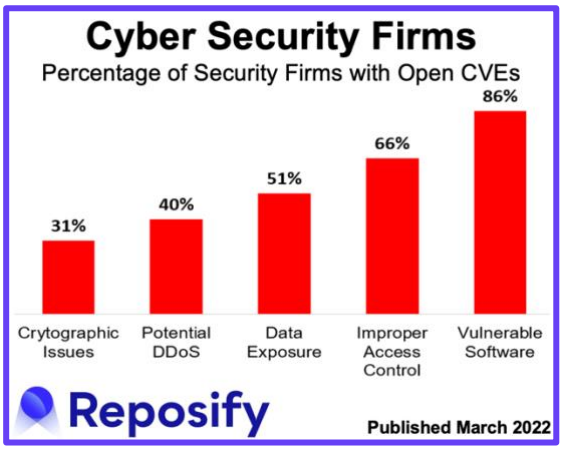


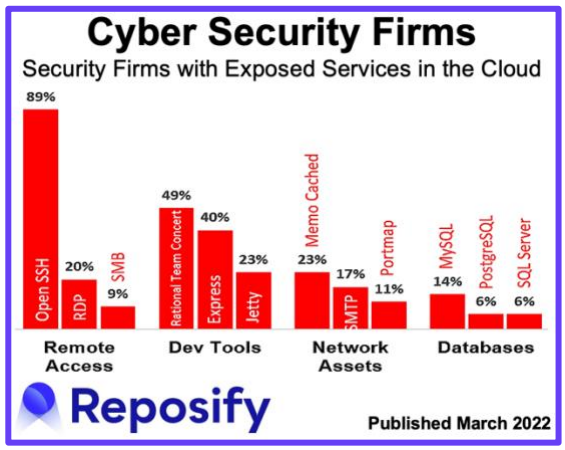
4. Cyber Insights: *Cyber Professionals & Security Firms*

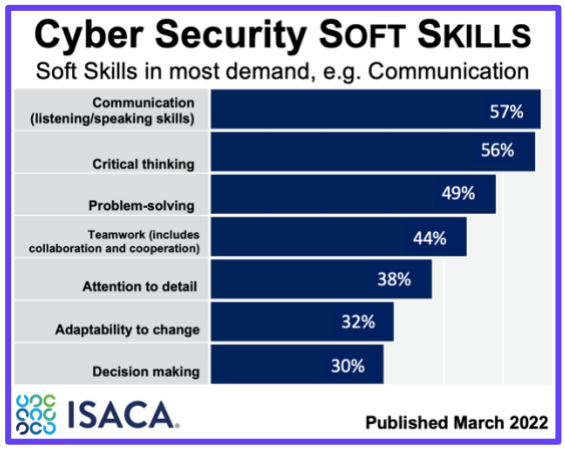
Click each image to see each report in full. All were published in month to April 2022

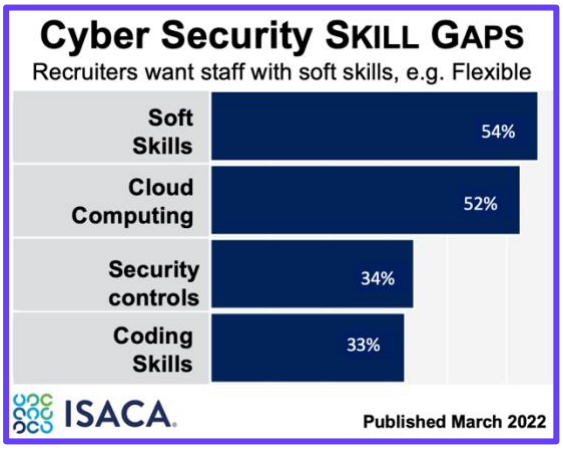






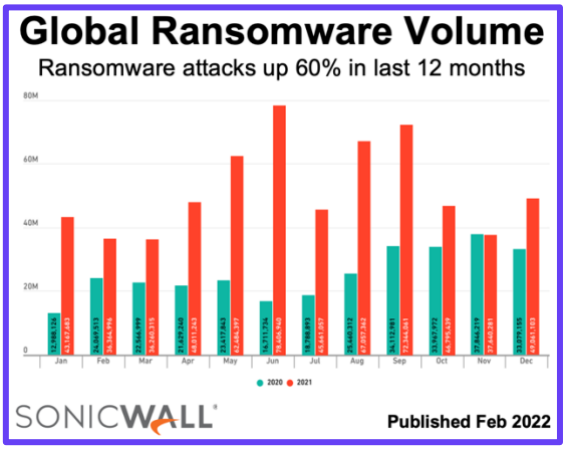


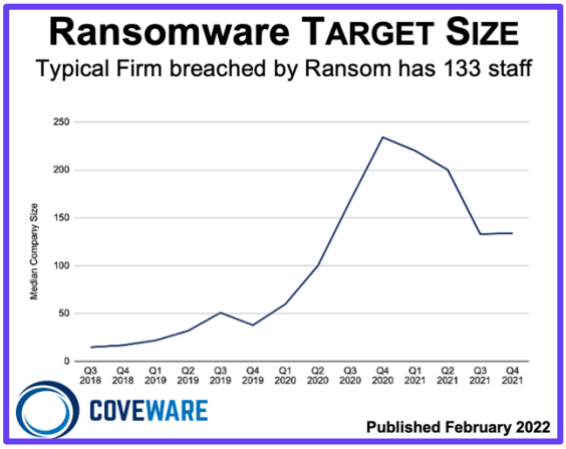


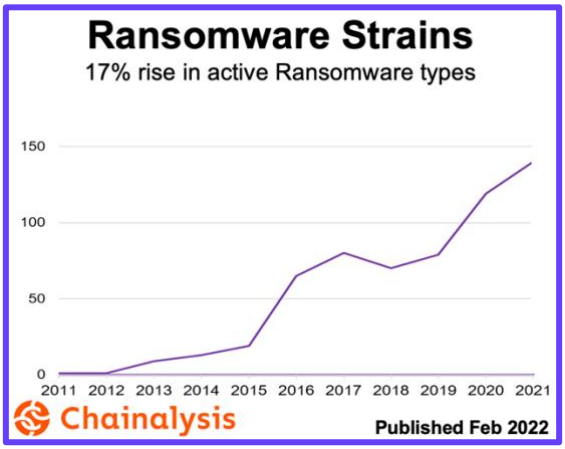


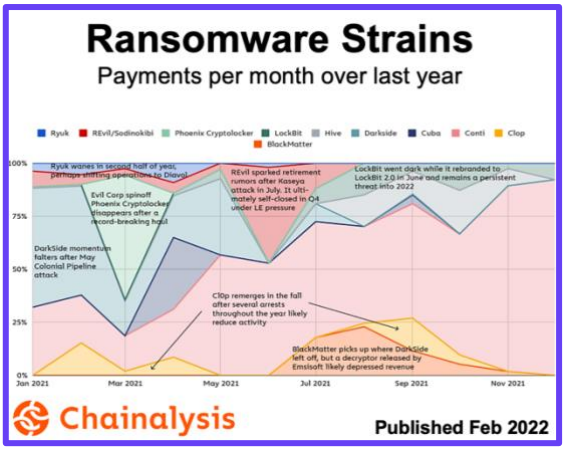
Cyber Insights: *Ransomware Volumes*

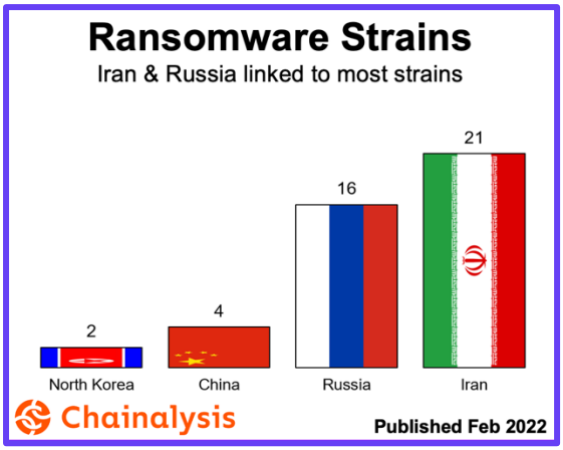
Click each image to see each report in full. All were published in month to March 2022

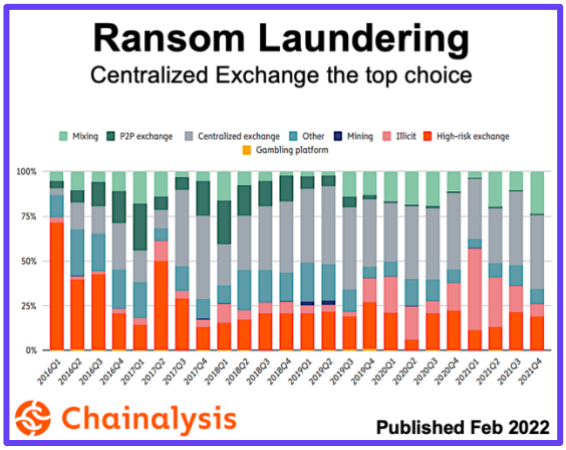


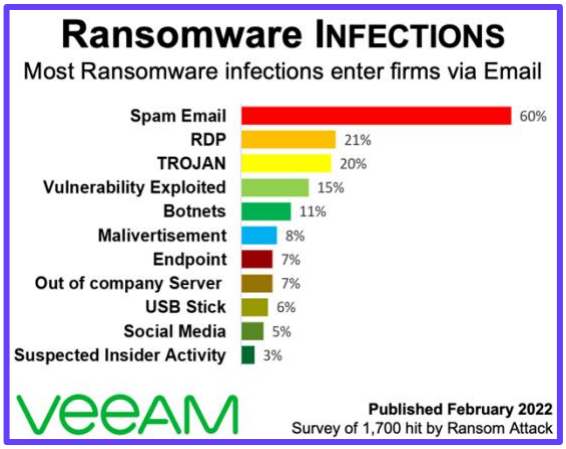


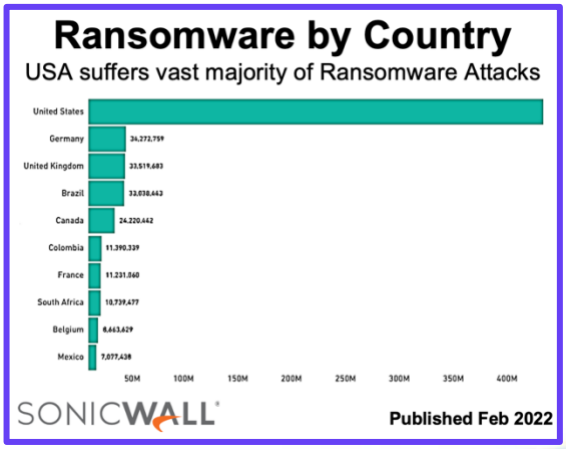












Cyber Insights: *Ransom Costs*

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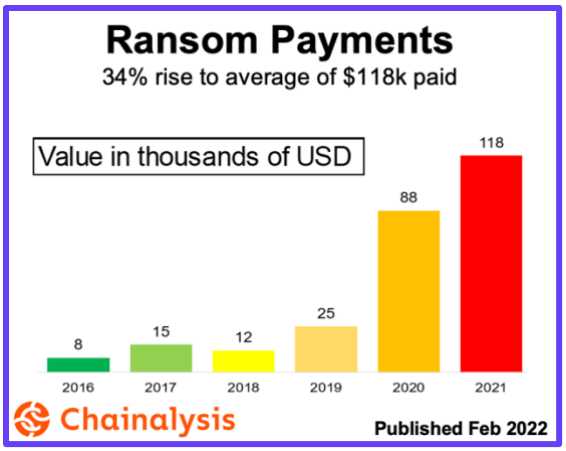
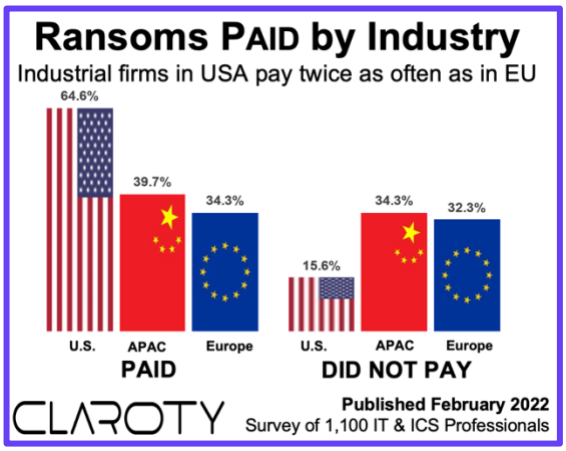
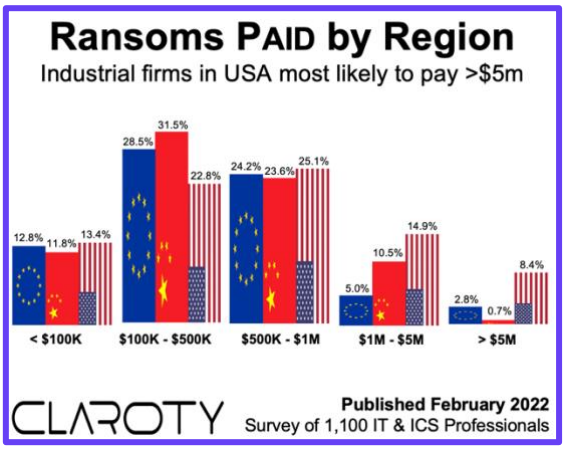
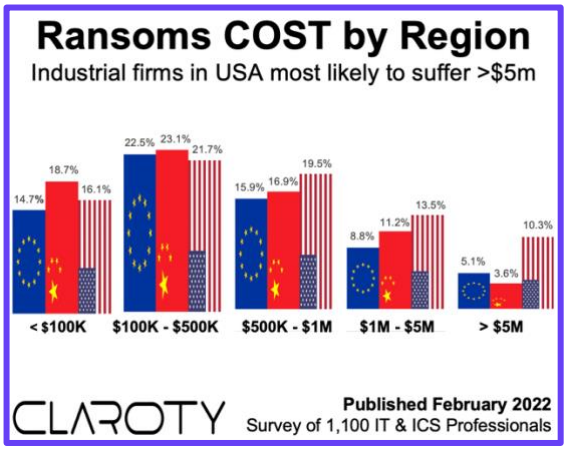
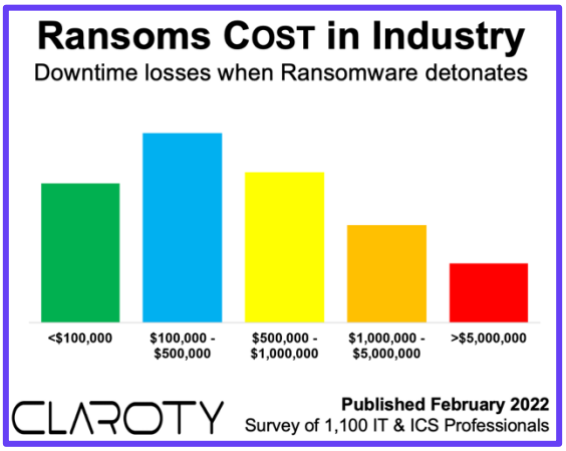
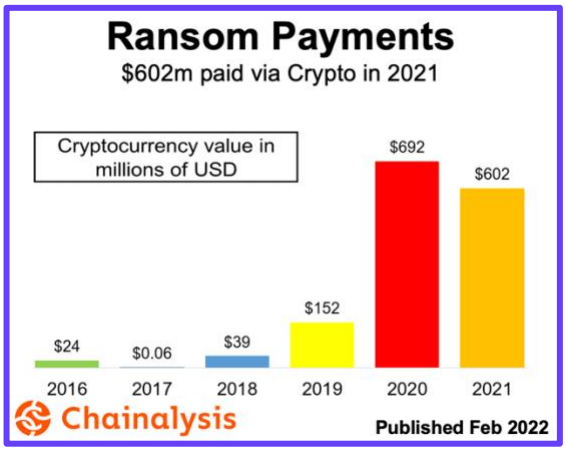


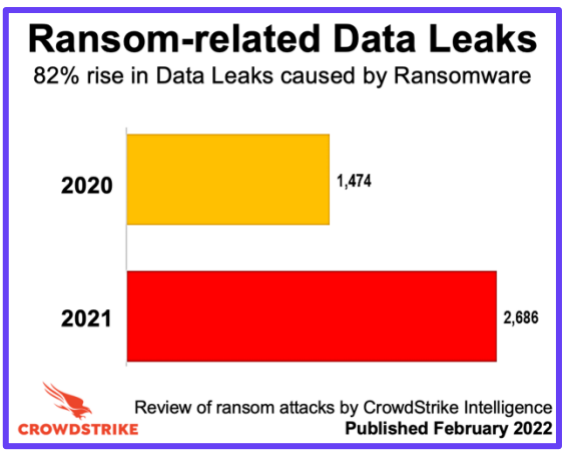


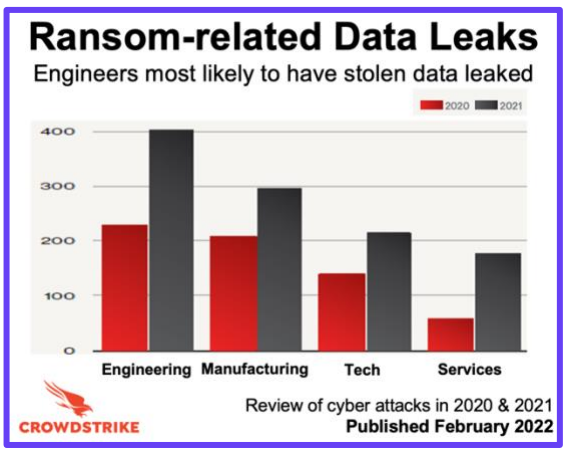










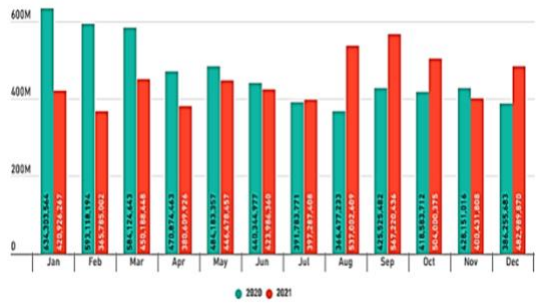


Cyber Insights: *Malwares & Attacks*

Click each image to see each report in full. All were published in month to March 2022

Global Malware Volume

Malware volumes rose again in last Quarter



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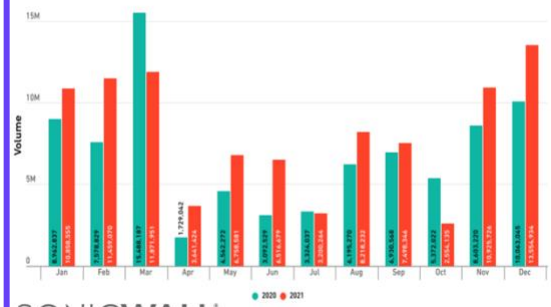
Global Cryptojacking Volume

19% increase over the last year



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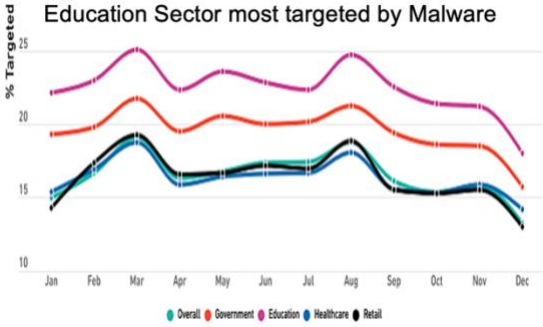
Malware by Sector

Education Sector most targeted by Malware



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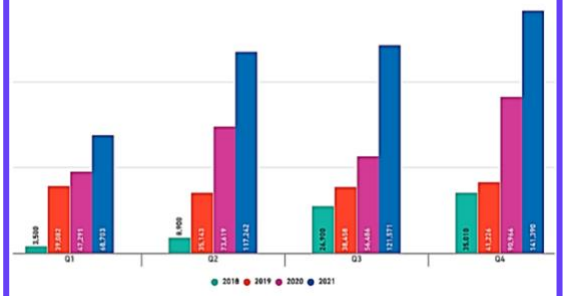
Malware Variants observed

65% increase in just the last year



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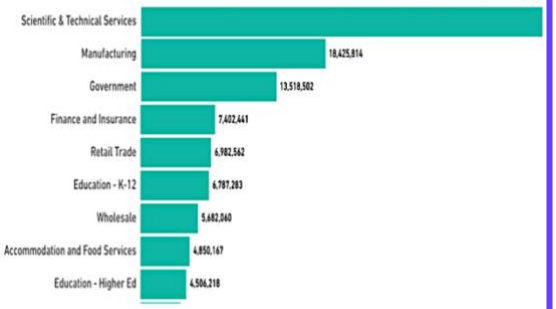
Log4j Attacks by Sector

Aim of most attacks = Theft of Intellectual Property



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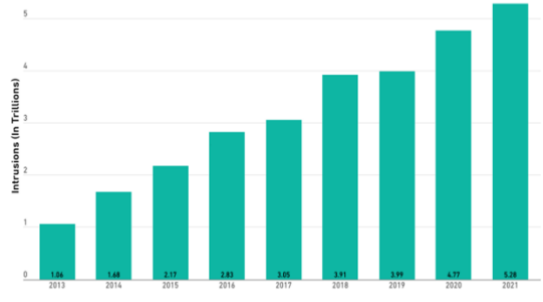
Global Intrusion Attempts

Malicious Intrusion Attempts rose by another 10.7%



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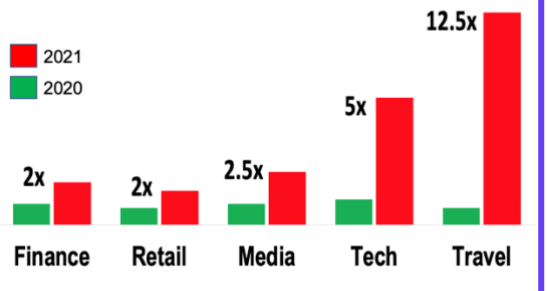
Customer Account Attacks

Criminals using Bots to scale up Attacks in last year



Arkose Labs

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Spoof Email "from LinkedIn"

Phishing Scams impersonating LinkedIn up 232%

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Cyber Insights: *Risks & Breaches*

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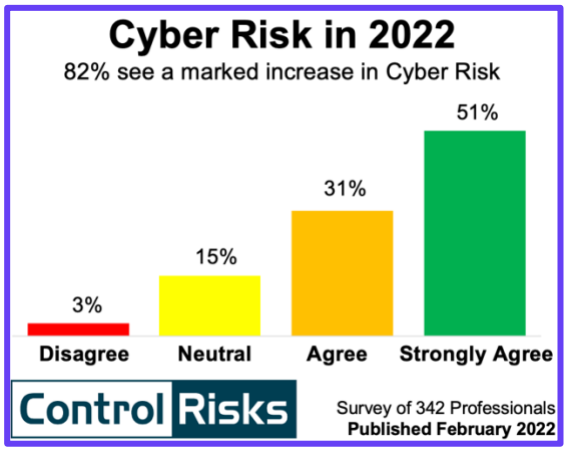

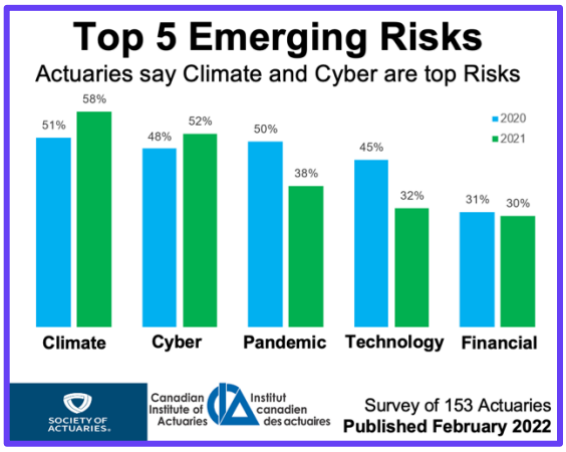

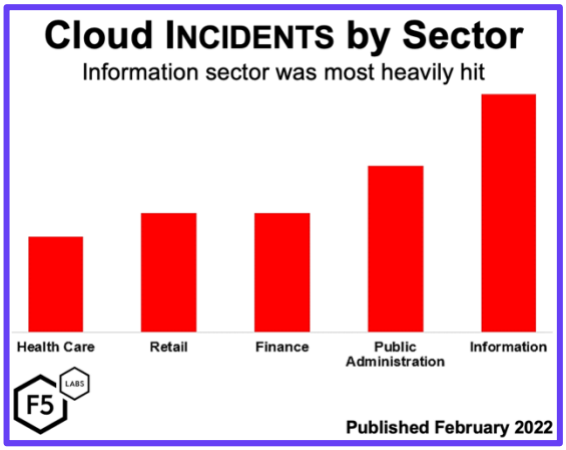

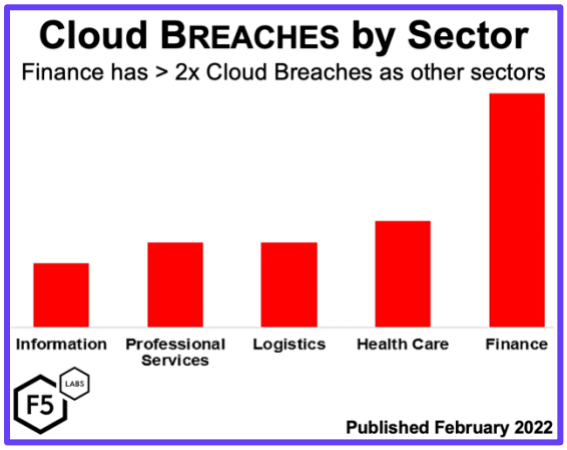

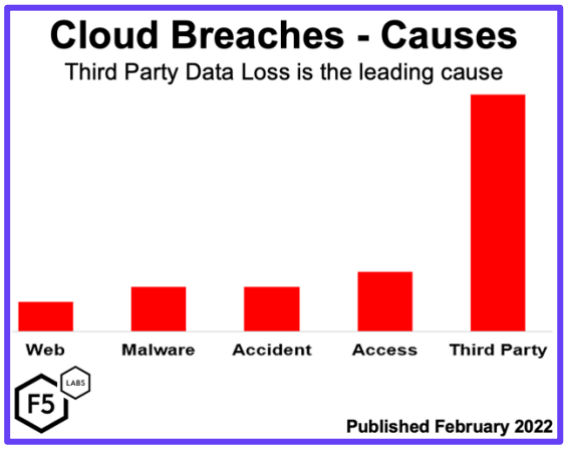

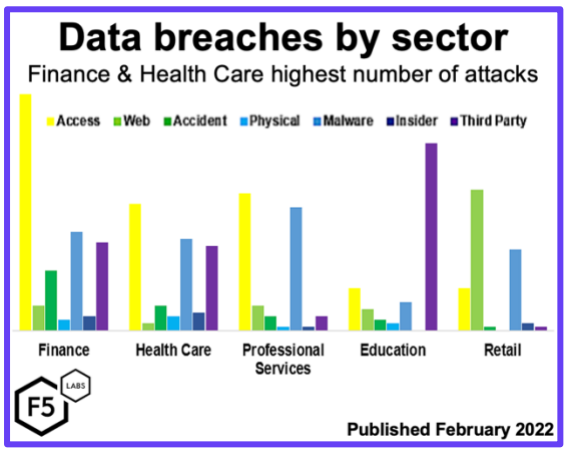

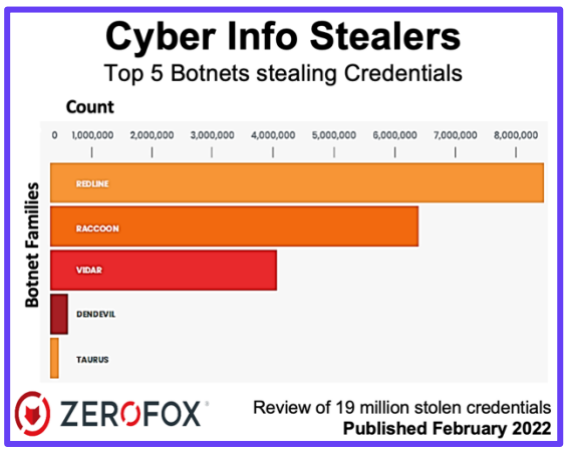

Cyber Insights: *Cyber Pros & Insurance*

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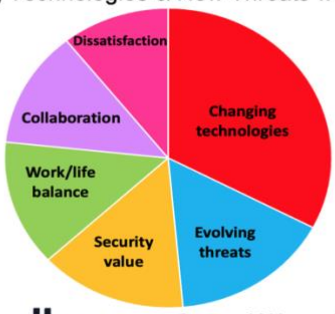
Security Engineer CONCERN

Changing Technologies & New Threats worry most



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Survey of 309 security engineers
Published February 2022

Security Engineer BURNOUT

What % feel "burnt-out" by their work in Cyber?

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Survey of 309 security engineers
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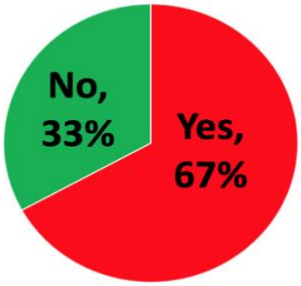
Security Engineer LOYALTY

67% of Security Engineers "plan to leave" employer



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Survey of 309 security engineers
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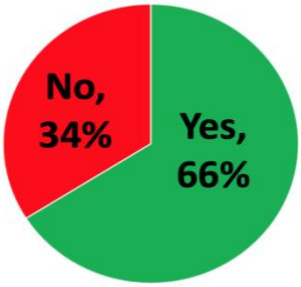
Security Engineer SALARIES

66% of Security Engineers satisfied with their pay



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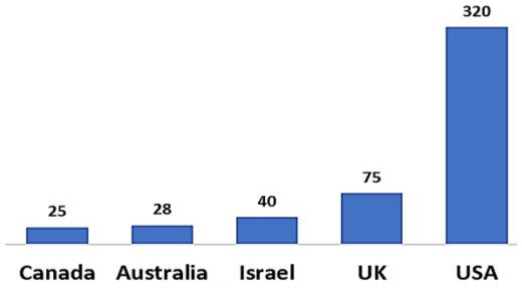
Cyber M&A

320 cyber mergers were reported in the USA in 2021



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Review of 430 cyber M&As
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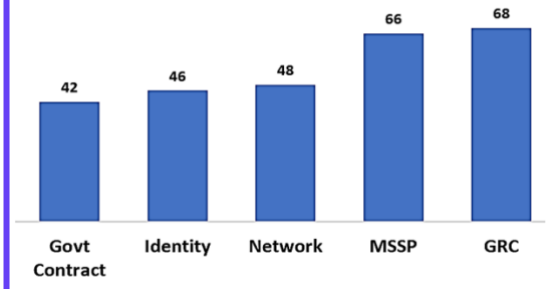
Cyber M&A

GRC (Governance, Risk & Compliance) leads



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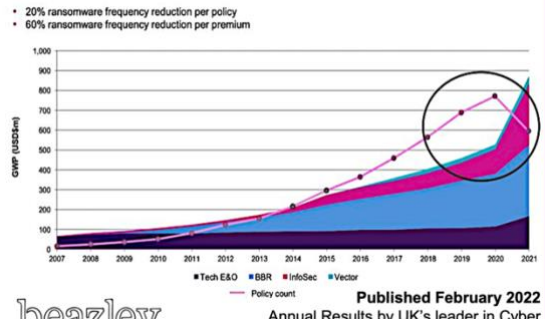
Cyber INSURANCE GROWTH

UK Market Leader sold almost $900m in last year



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Published February 2022
Annual Results by UK's leader in Cyber Insurance, with almost $900m in Premiums

Cyber Insurance Prices: x2

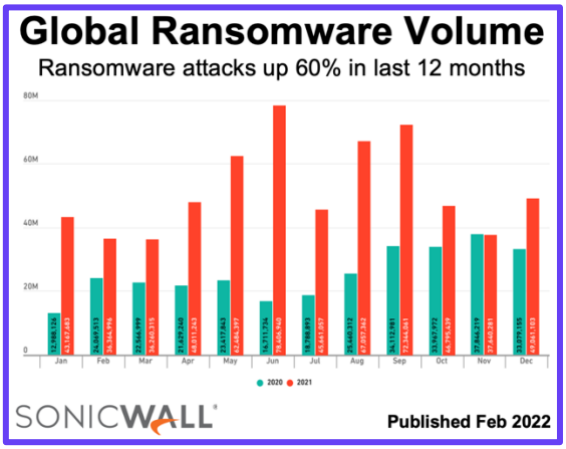
Price of Insurance rose 130% in 12 months in USA

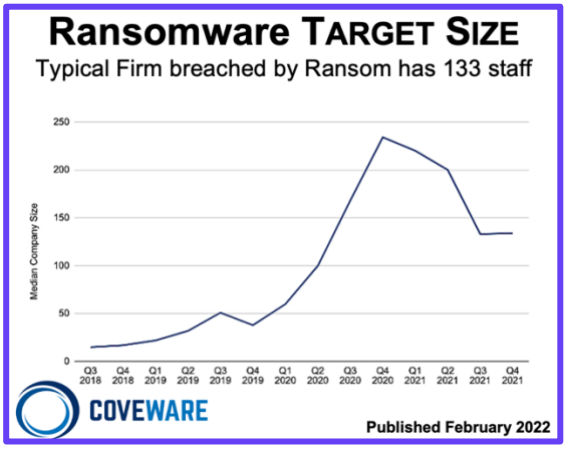
Marsh

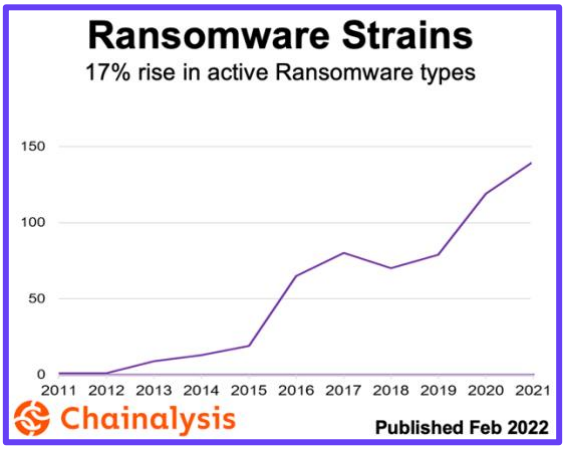
Global Insurance Market Index
Published February 2022

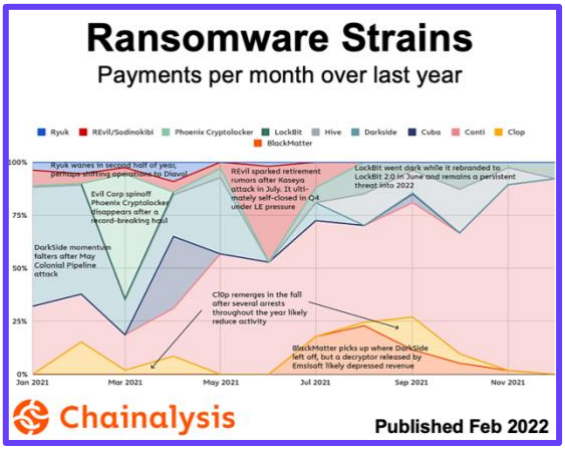
Best Cyber Insights of 2022

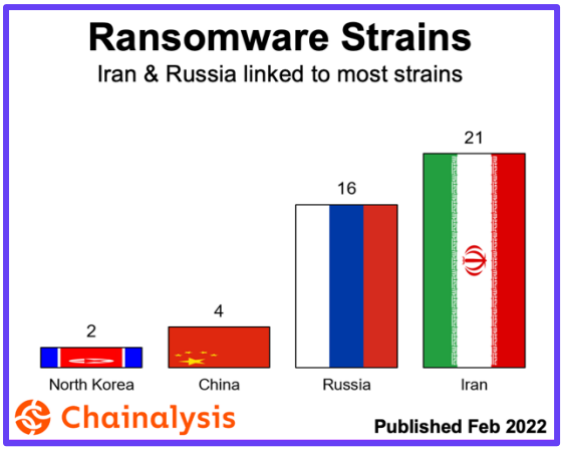
Click each image to see each report in full. All were published in month to March 2022

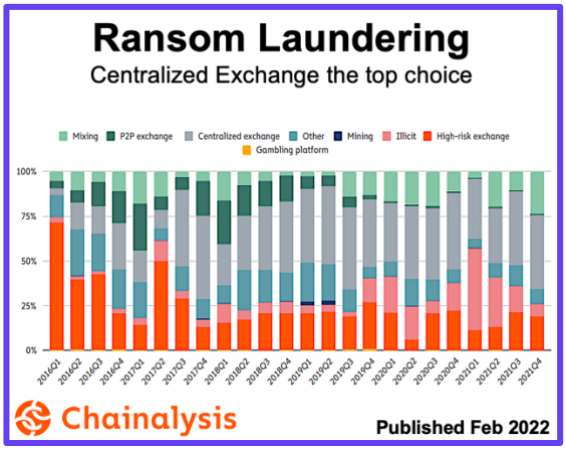


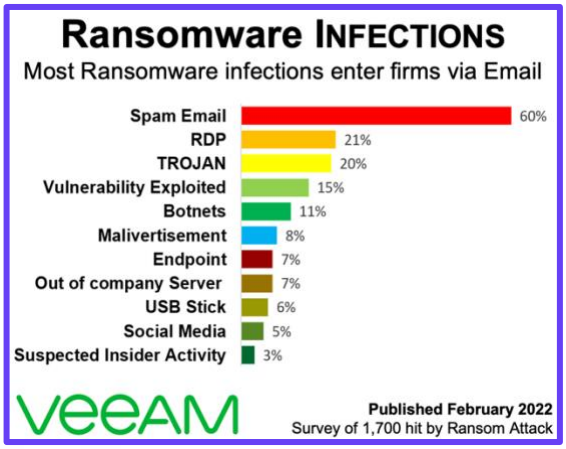


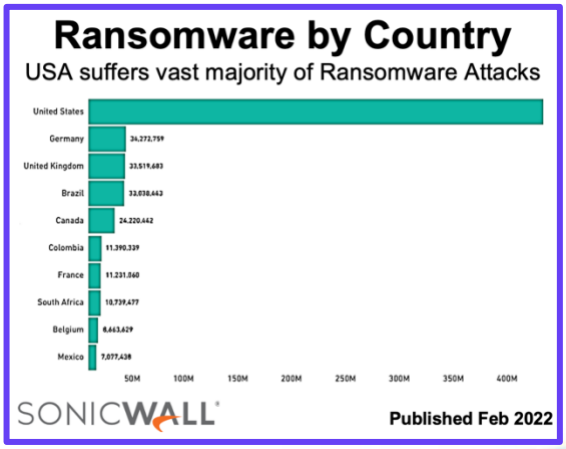












Cyber Insights: *Ransom Costs*

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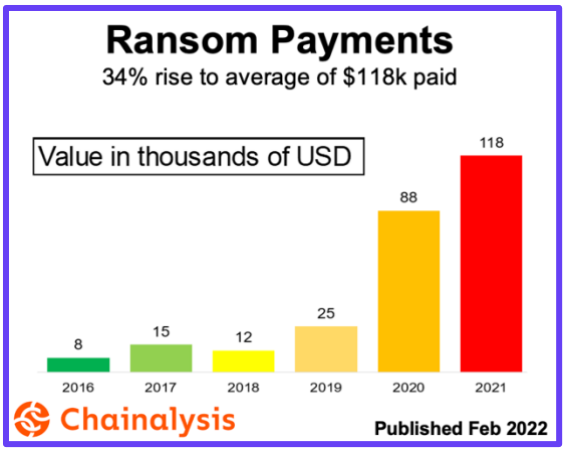

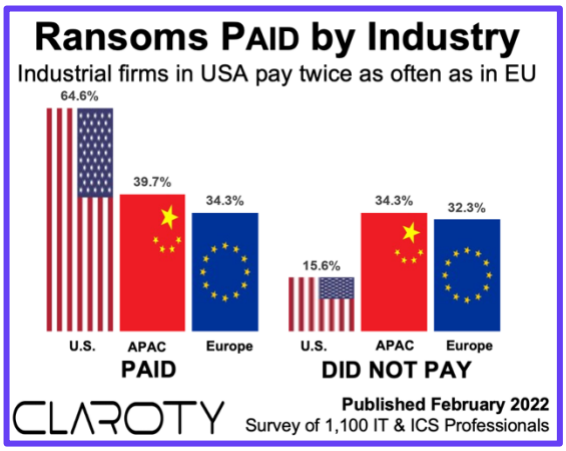

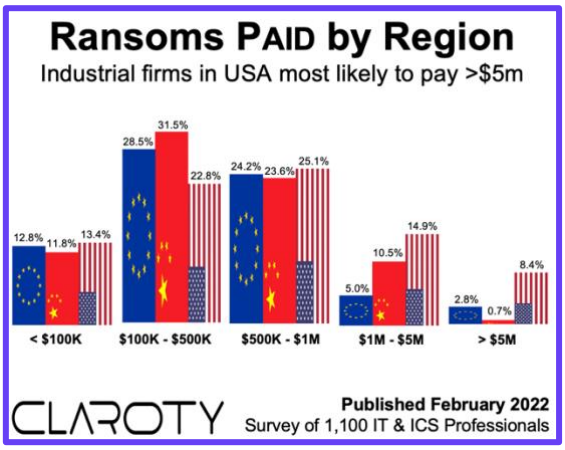

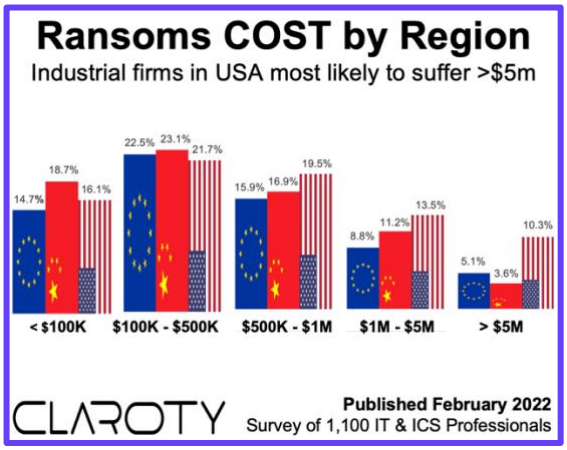

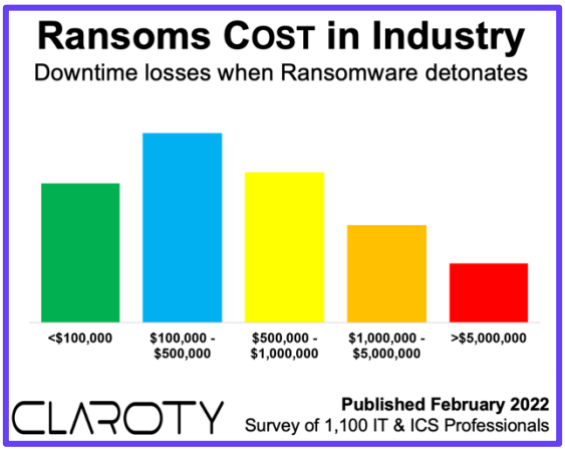

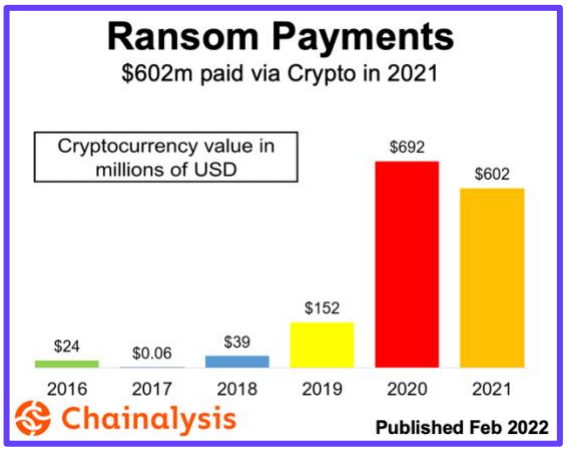

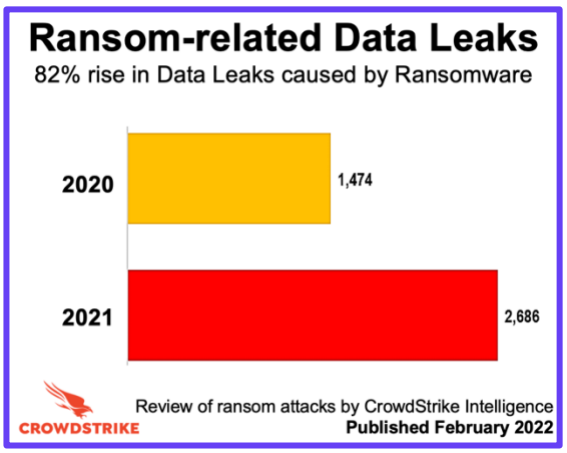

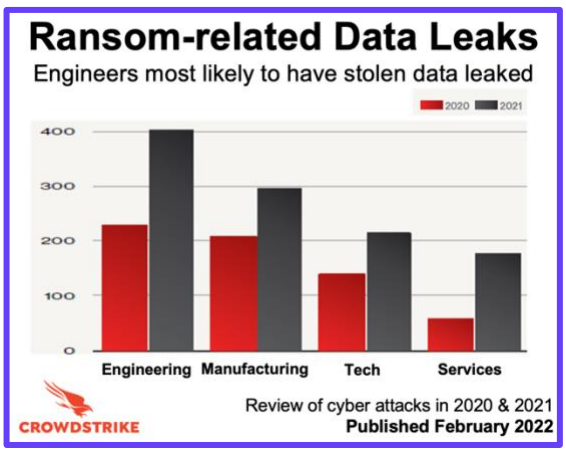

Cyber Insights: *Malwares & Attacks*

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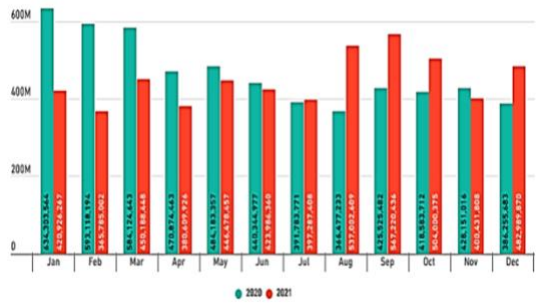
Global Malware Volume

Malware volumes rose again in last Quarter



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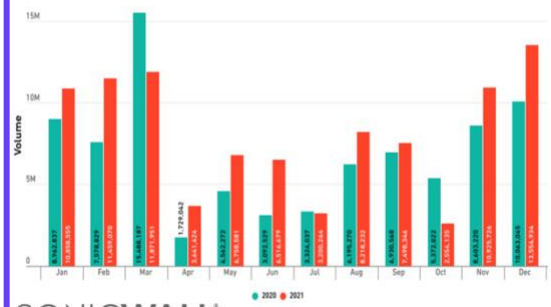
Global Cryptojacking Volume

19% increase over the last year



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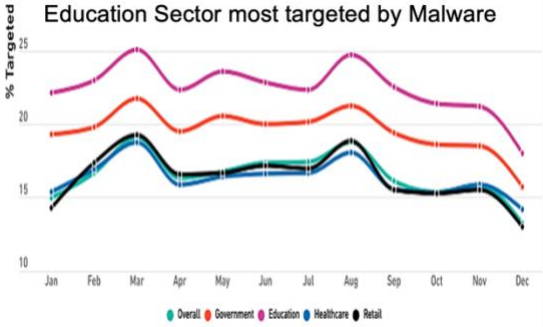
Malware by Sector

Education Sector most targeted by Malware



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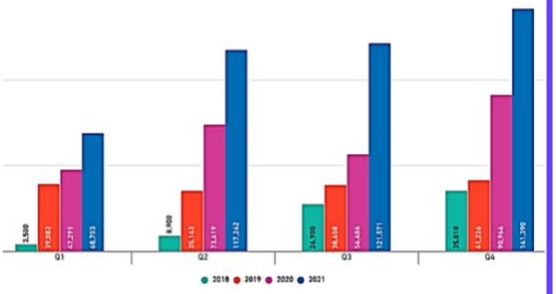
Malware Variants observed

65% increase in just the last year



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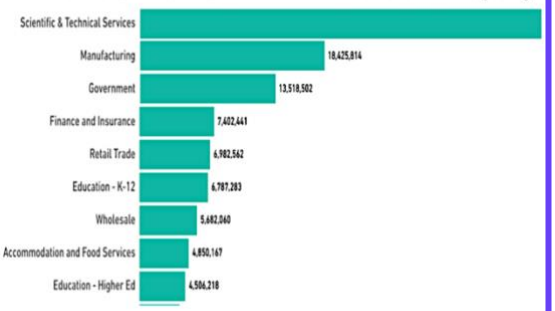
Log4j Attacks by Sector

Aim of most attacks = Theft of Intellectual Property



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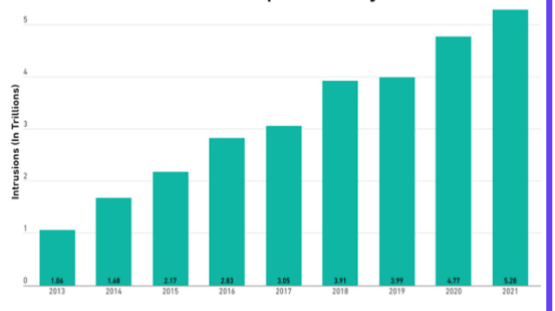
Global Intrusion Attempts

Malicious Intrusion Attempts rose by another 10.7%



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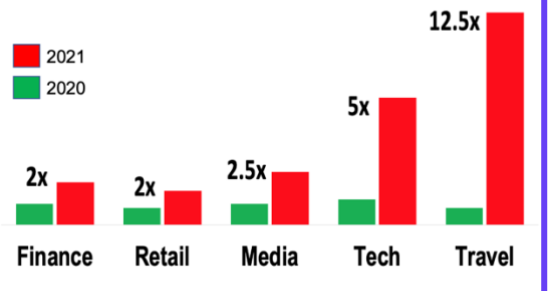
Customer Account Attacks

Criminals using Bots to scale up Attacks in last year



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Spoof Email "from LinkedIn"

Phishing Scams impersonating LinkedIn up 232%

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Cyber Insights: *Risks & Breaches*

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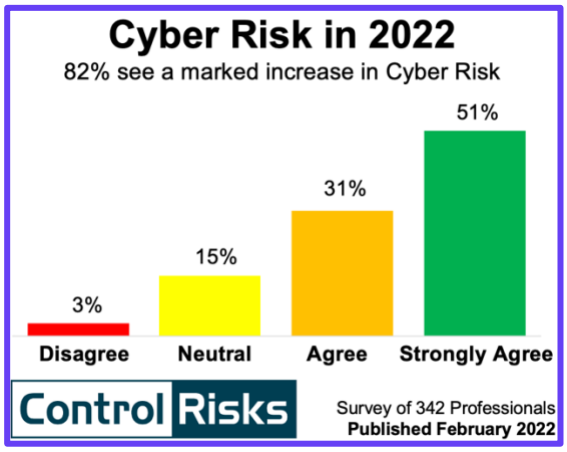

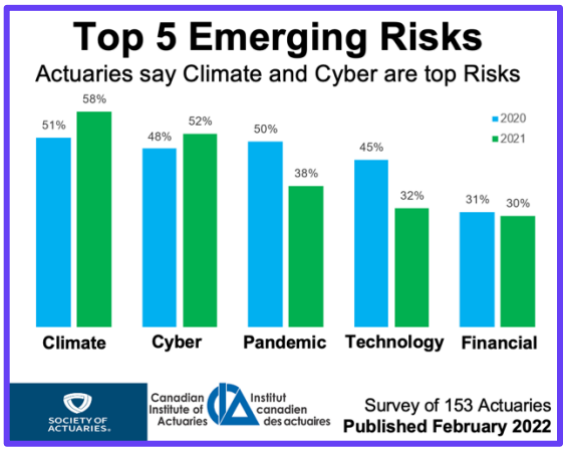

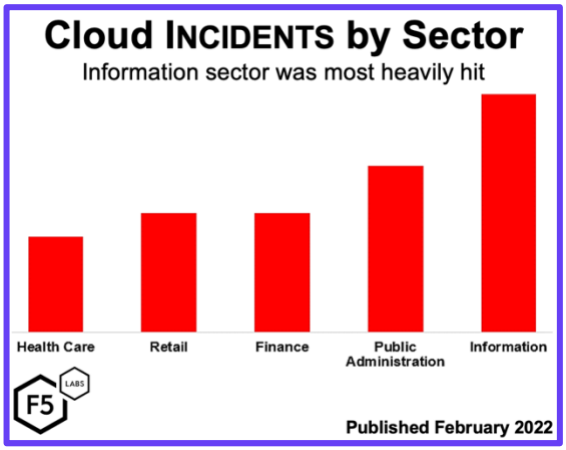

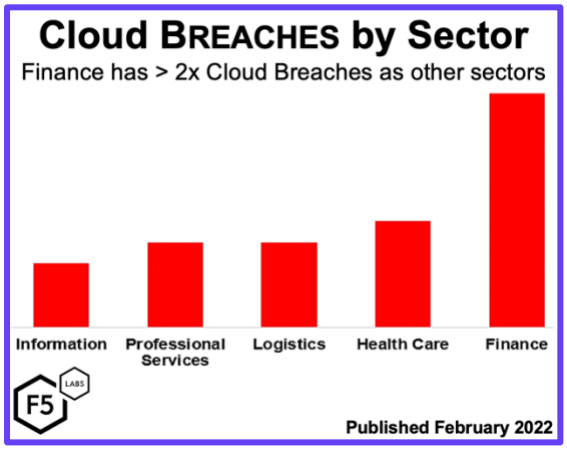

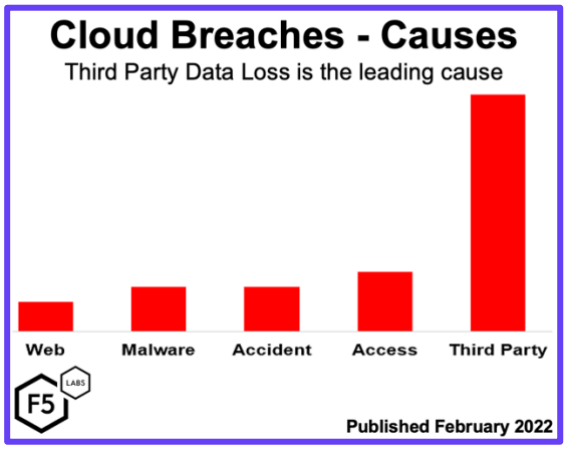

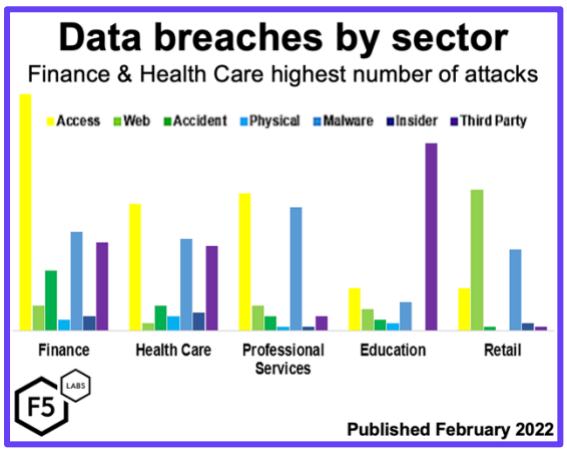

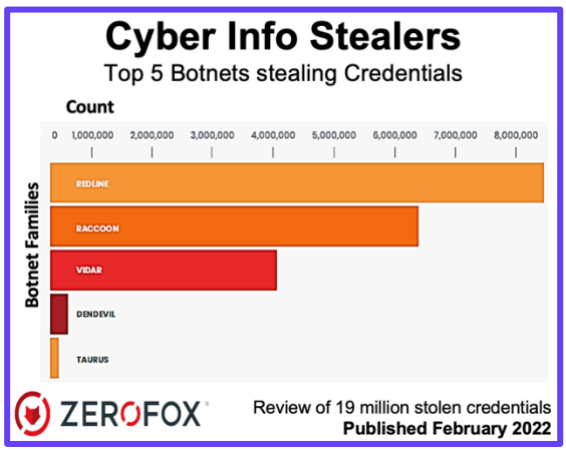

Cyber Insights: *Cyber Pros & Insurance*

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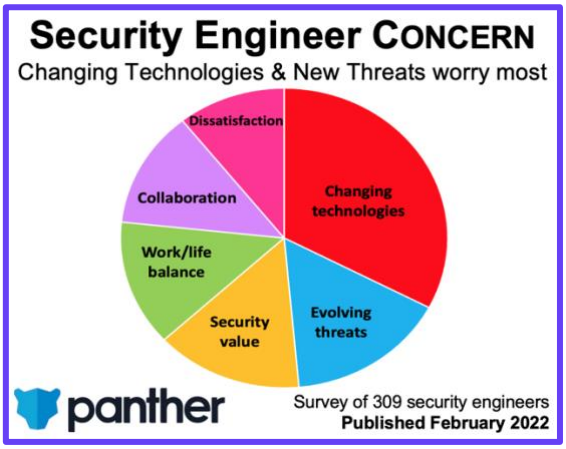

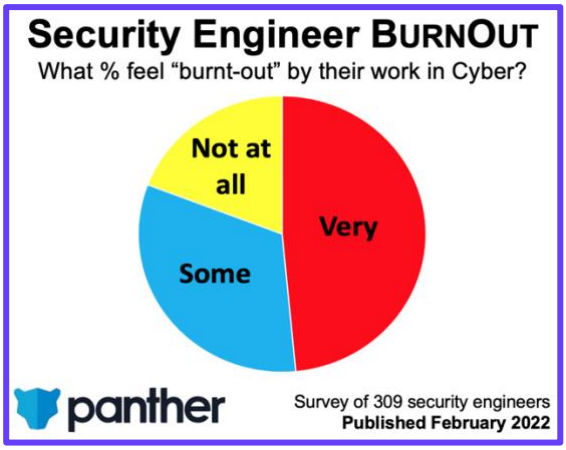

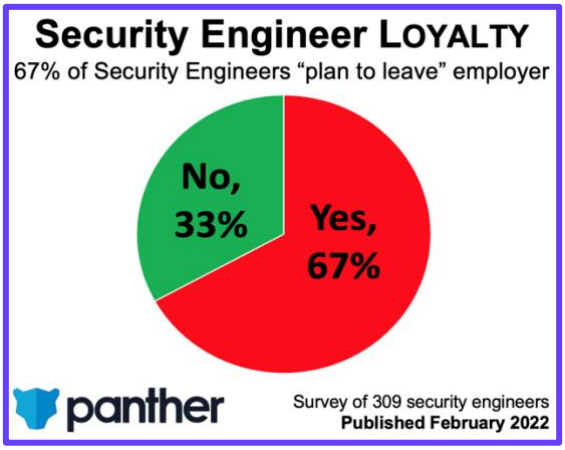

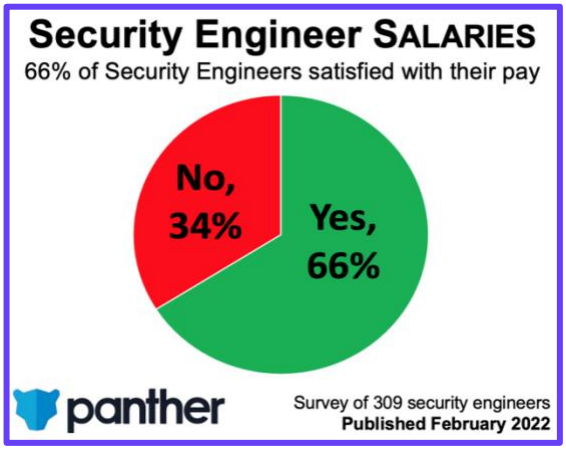

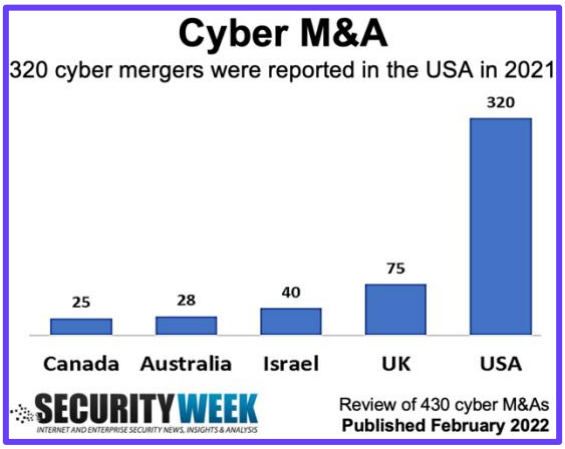

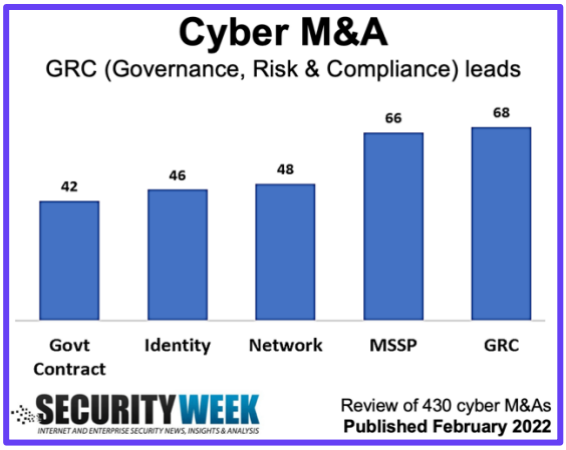

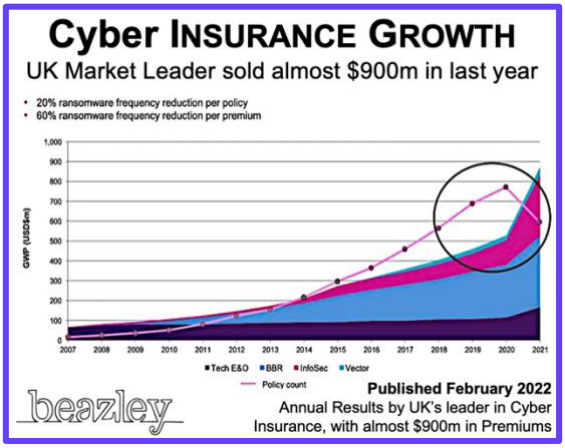

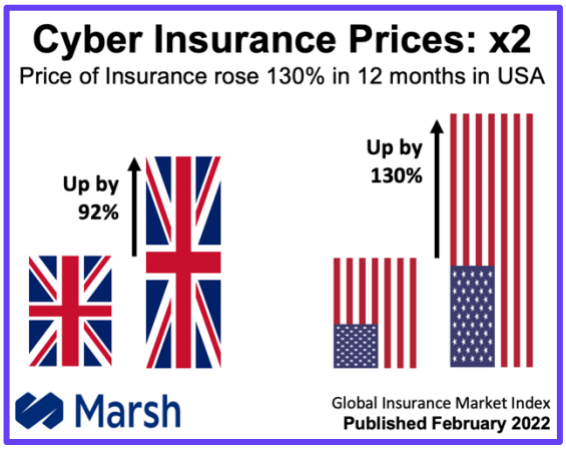

New Cyber Insights: *Growth Rates*

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