

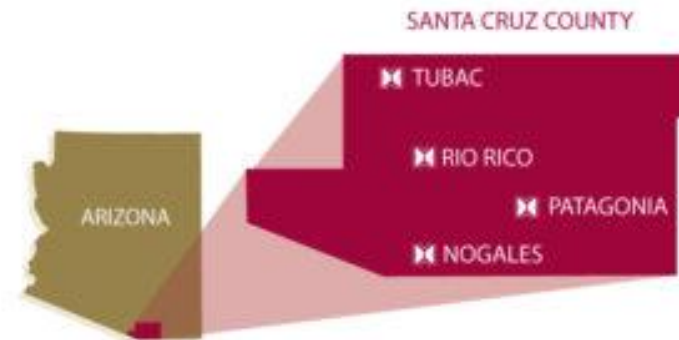
MARIPOSA
Your
COMMUNITY
HEALTH CENTER

Cyber Security *Experience & Risk Mitigation*

Dan Prevost

Location: Santa Cruz County, Arizona

- ~30,000 patients served
- ~\$47 million budget
- ~400 employees
- Southernmost central part of the state, bordering Mexico
- Largest single border crossing for Mexican fresh produce
- Approximately \$2.5 billion of fresh produce comes through the Nogales port of entry annually
- This accounts for about 37% of the produce imported into the US from Mexico



Data

Why care about cybersecurity?

Context:

- The following data is based on a 2022 study published by IBM
- Data was collected on 550 companies from 17 countries around the world...
- The United States had the most companies in this study (64)

IBM Cost of Breach Report 2022

Average Cost of Breach

Trend 2016 – 2022 in Millions of Dollars

Cost of a data breach reached an all time high in 2022

Average total cost of a data breach



Figure 1: Measured in USD millions

USD 4.35 million

Global average total cost of a data breach

USD 9.44 million

Average cost of a breach in the United States,
the highest of any country

Average cost of a data breach by country or region

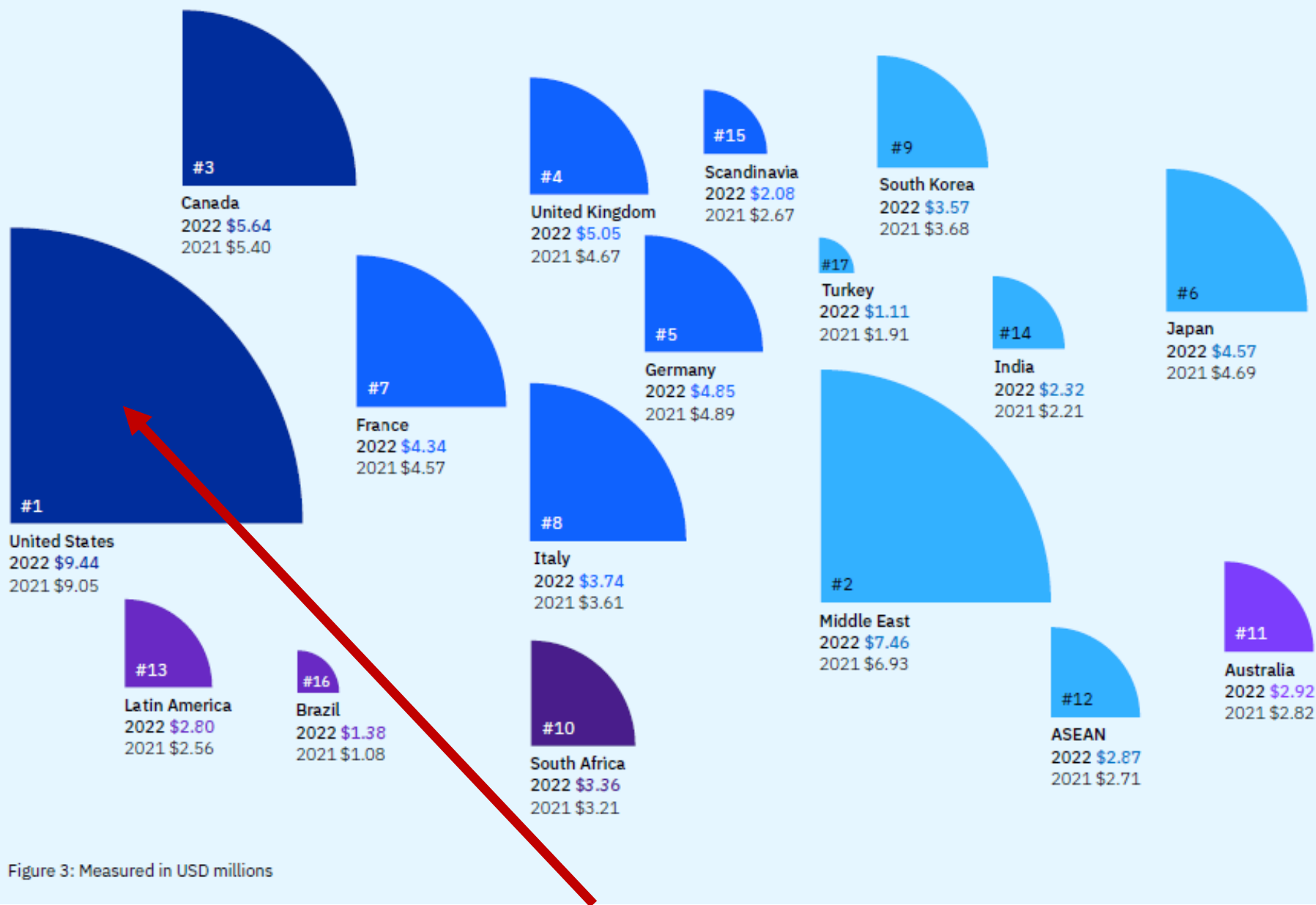
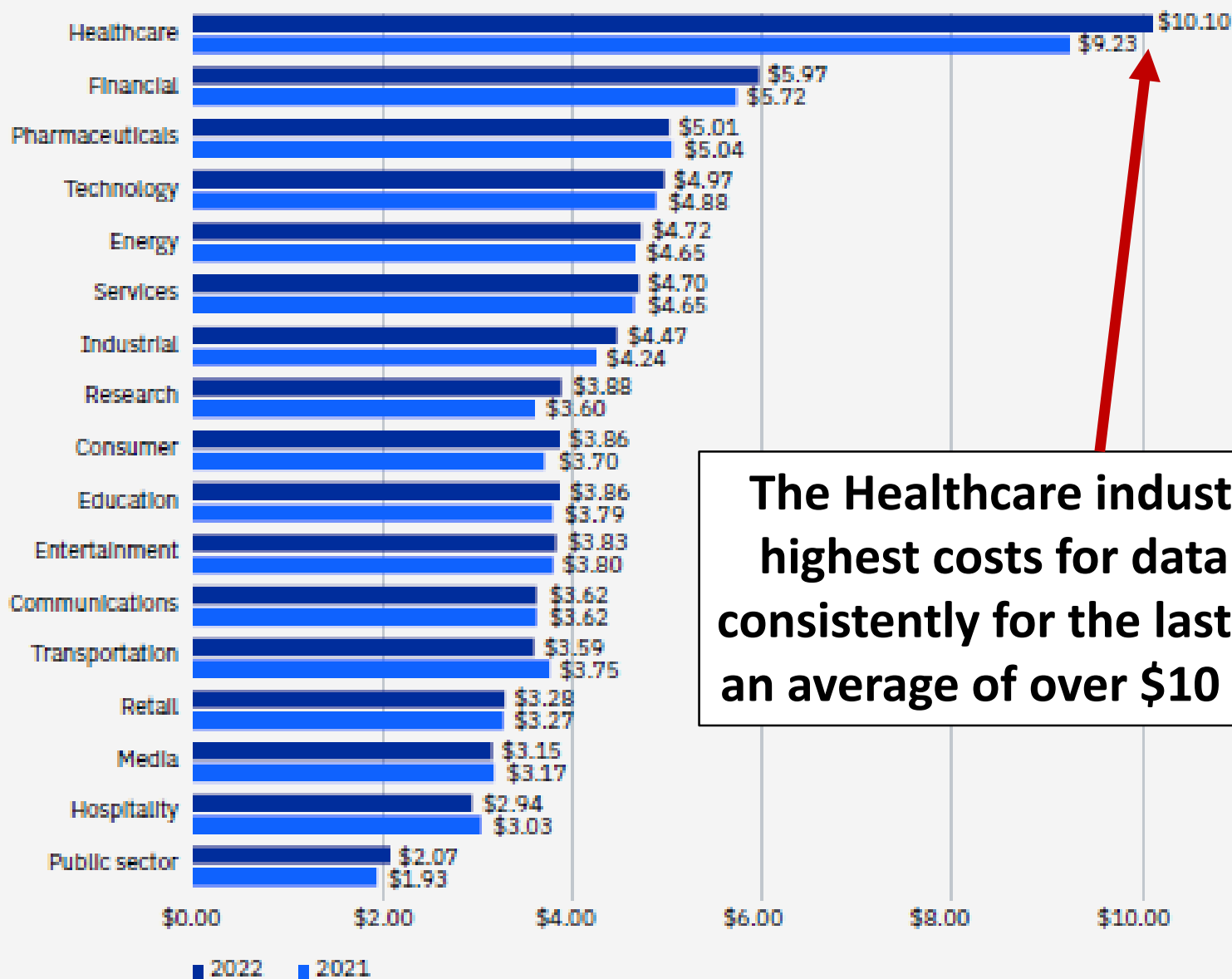


Figure 3: Measured in USD millions

U.S. has the highest costs for data breeches

Average cost of a data breach by industry



The Healthcare industry has the highest costs for data breaches consistently for the last 17 years at an average of over \$10 M. in 2022.

Figure 4: Measured in USD millions

Average cost of a data breach by security AI and automation deployment level

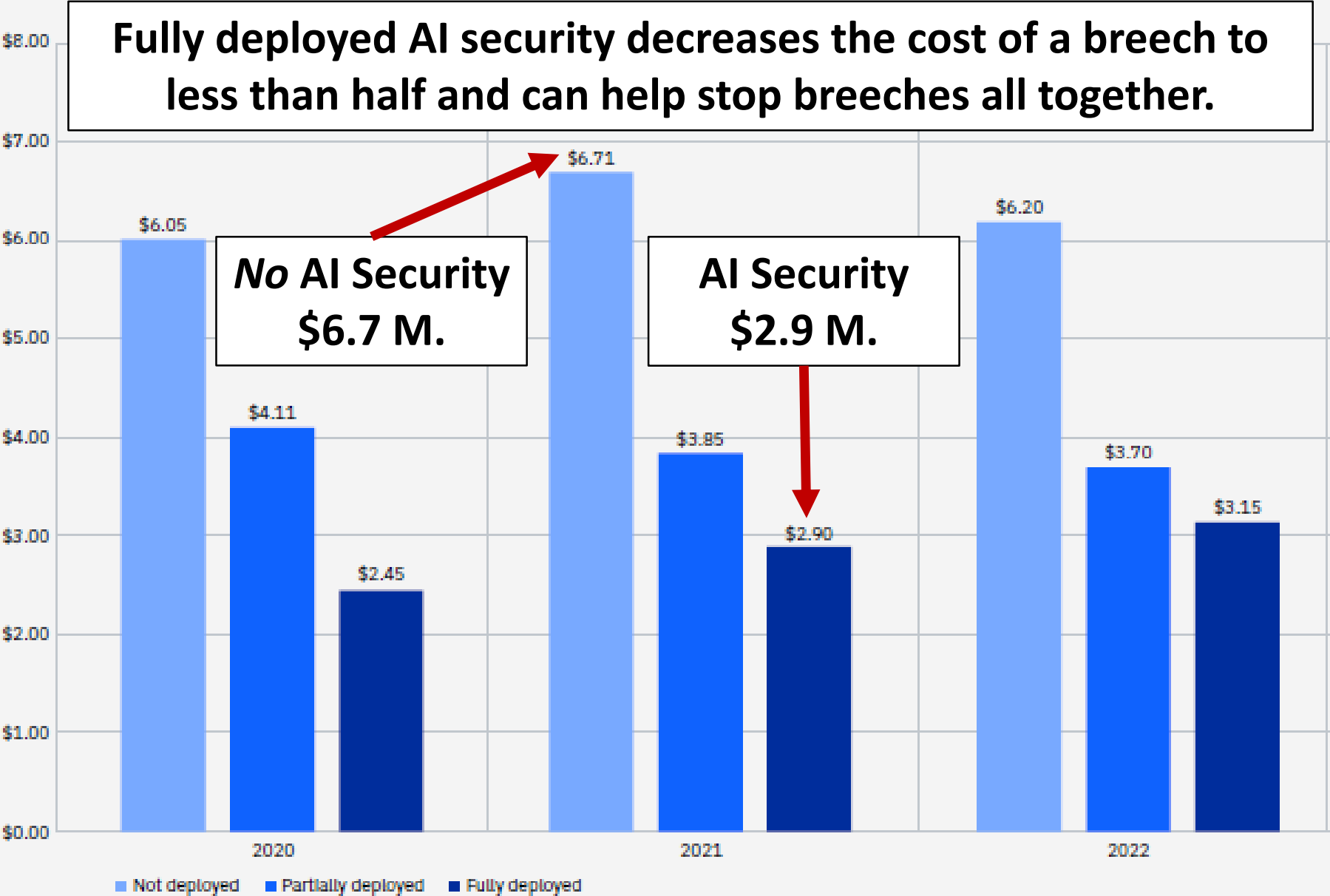


Figure 17: Measured In USD millions

Zero Trust Impact

Will Help prevent some breeches all together

Average cost of a breech with no
Zero Trust deployed \$5.1 M.

Average cost of a breech with full
Zero Trust deployed \$3.45 M.

Average savings \$1.65 M.

Impact of zero trust on average cost of a data breach

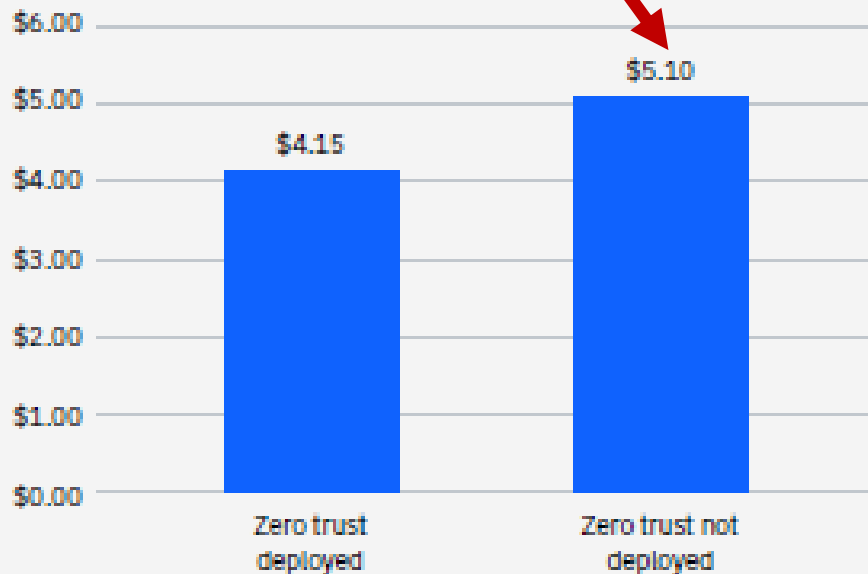


Figure 27: Measured In USD millions

Average cost of a data breach by the stage of zero trust deployment

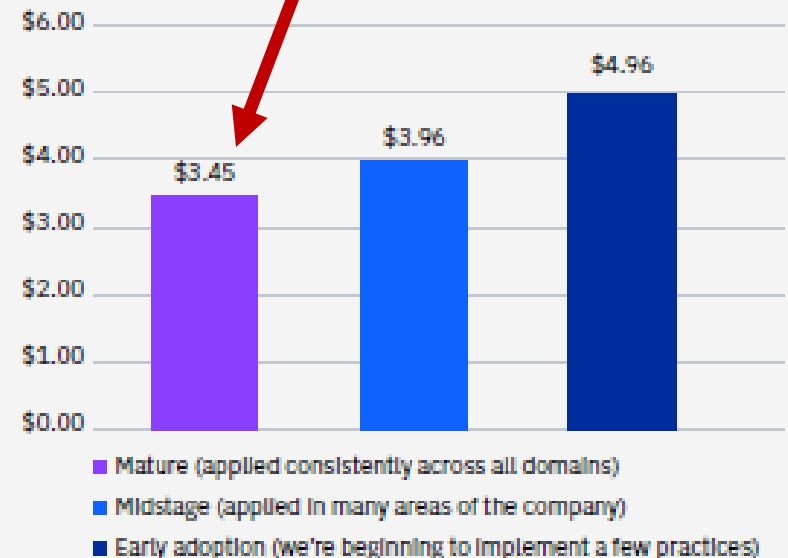


Figure 28: Measured In USD millions

Fellow FQHC Case Study

Cyber Attack, consequences and outcome.

- Nevada FQHC was under attack
 - Phishing attack gave employee credentials to a hacker.
 - Those credentials were leveraged to gain Admin credentials.
 - The intruder was then able to encrypt the FQ's data.
 - Ransomware demands began showing up throughout the organization.
- The Response
 - Locked everything down.
 - Contact cyber liability insurance company.
 - Notify leadership & great a game plan.
- The Solution
 - Wipe and reimage everything & rebuilt domain.
 - Restore from cold air gap storage.
 - Further staff training.
 - Further system monitoring.

Because of cold air gap storage no ransom was paid!

Some Mariposa History

IT Vendor Transition

- Our initial IT vendor had several base layers of security:
 - Multi Factor Authentication (MFA) for off site access
 - Laptop drive encryption
 - Virtual Private Networks (VPNs) for off-site use
- When moving to our new IT vendor
 - The vendor claimed to have all these base security tools ready to deploy
 - However, it took nearly two years for them to deploy
 - We had extended periods of time where we bore a substantial amount of risk
- Have had \$1 M. in cyber liability insurance

Mariposa Current State

- Multi Factor Authentication(MFA) for mobile and off-site access.
- All workstation drive encryption.
- Virtual Private Networks (VPNs) for off-site use.
- Cyber Security/Phishing training for all staff.
- Threat detection and immediate IT response (manual).
- All staff warnings when we are under phishing attacks.
- Blacklisting potential intruders.
- Microsoft E365, Exchange ATP & Critical Security Controls (CIS).
- Privilege Identity Management (PIM).
- Mobile Application Management (MAM).
- Annual tabletop disaster and recovery exercises.
- Increased to \$3 M. in cyber liability insurance.

Future Roadmap

- Deploy artificial Intelligence automated monitoring tools.
- Develop a mature Zero Trust network.
- Always on VPN for all external Access for remote access.
- Roll out advanced biometric authentication.
- Deploy cold air gap storage for critical systems.
- Enhancing our new hire/annual Cyber Security Continued Education programs.
- Rollout automated process for simulated phishing email attacks/network intrusion, and continuing staff threat education.
- Have regular touchpoints with security experts to keep on top of changes in the industry to drive needed infrastructure growth.
- Stricter internal access controls for Servers/Network hardware.
- Increase cyber liability to \$4 M. and potentially more in the future.

Questions?



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