



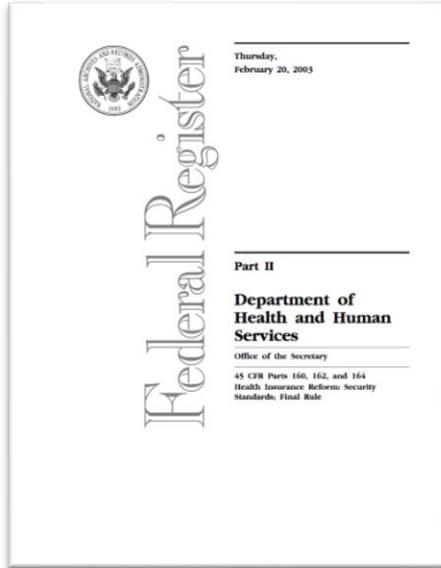
Five Years Later

Is it time for Healthcare to Look at the NIST Cybersecurity Framework to Support HIPAA Compliance?

HIPAA Summit 2020
Mini-Summit XII
March 3, 2020

29th National HIPAA Summit

HIPAA Security Rule



Security Standards – Final Rule 2003



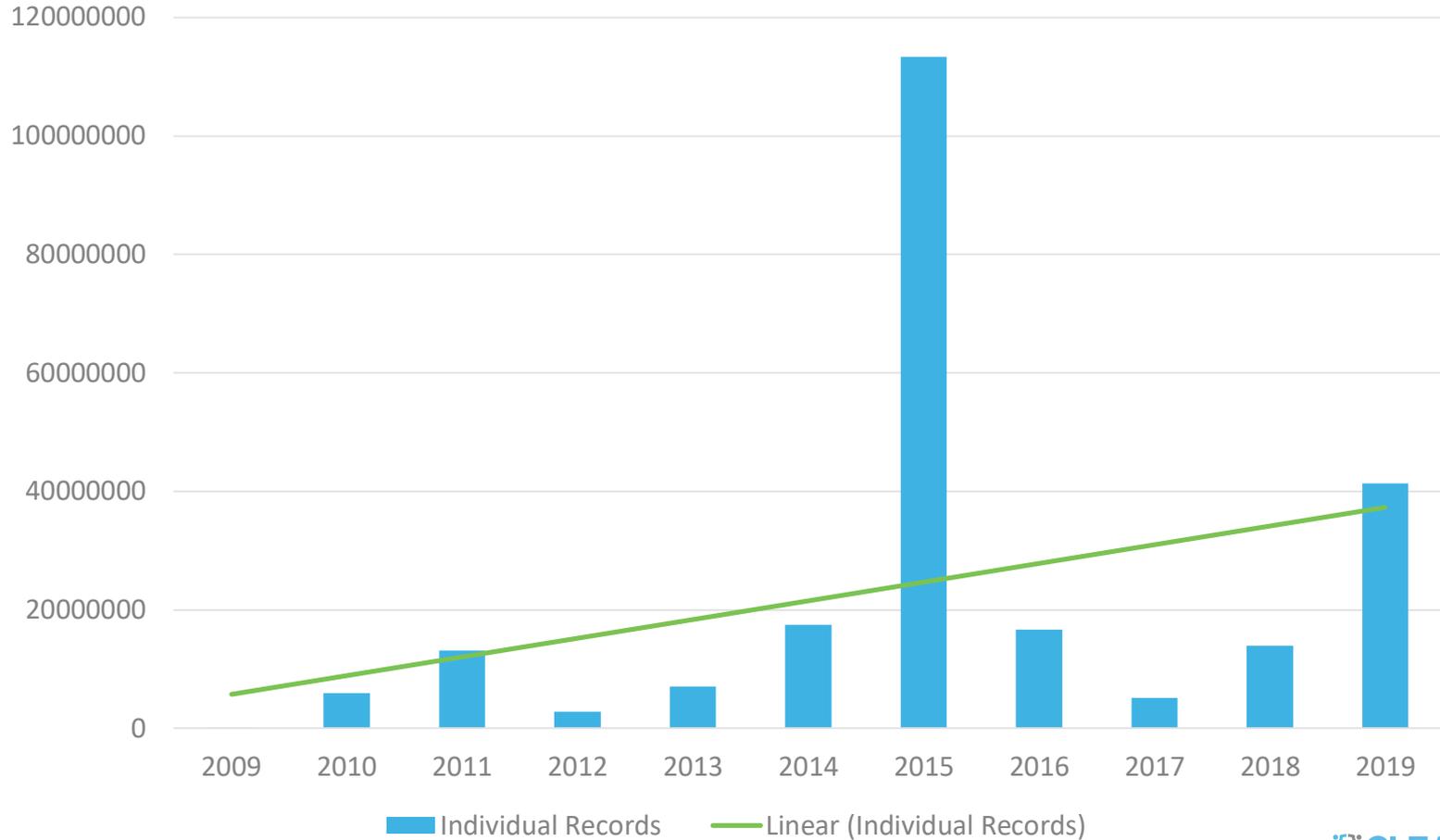
Omnibus– Final Rule 2013

HIPAA Security Rule General Requirements

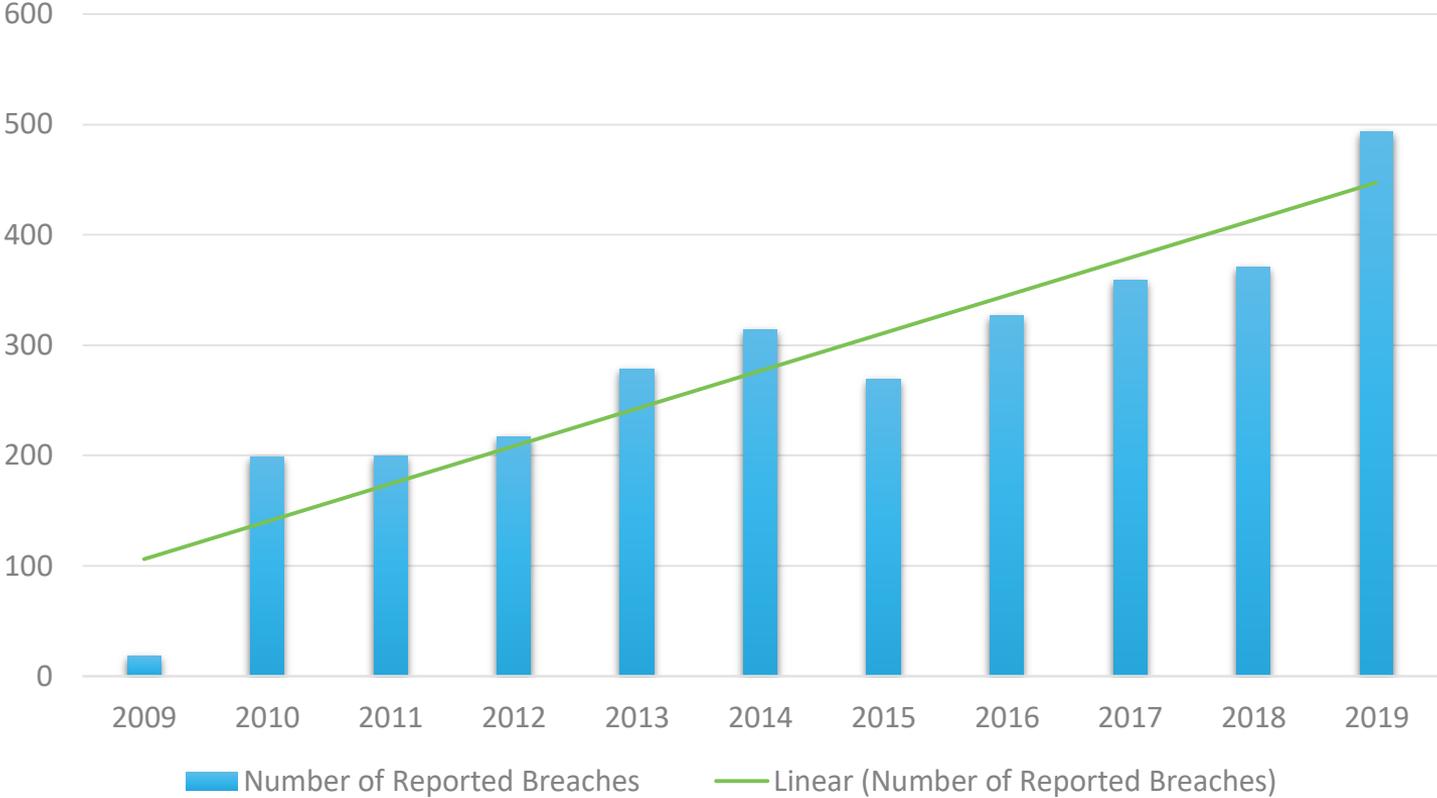
- 1) Ensure the **confidentiality, integrity, and availability** of all ePHI they create, receive, maintain or transmit
- 2) Identify and protect against **reasonably anticipated threats** to the security or integrity of the information
- 3) Protect against reasonably anticipated, **impermissible uses or disclosures**; and
- 4) Ensure **compliance** by their workforce

How are **we** doing?

Individual Records



Number of Reported Breaches



Why is this happening?

Increasing **complexity** of IT.

Increasing **attack surface**.

Increasing sophistication of **adversaries**.

Increasing compliance **requirements** distracting from security.

Insufficient resources (staff/budget).

Explanation or Excuse?

How do we get to a place where we achieve both the requirements of the HIPAA Security Rule and its Objectives?



It's a **controls-based** world.

Industry Control Frameworks

- ISO
- NIST 800-53
- CIS

Compliance Driven Control Frameworks

- HIPAA
- PCI
- 800-171
- State Requirements (ex NY SHIELD)

Control Frameworks to Comply with Control Frameworks

- HITRUST
- Secure Control Framework
- Custom Organization Frameworks



Frameworks are intended to help us bring order to chaos and complexity but instead we have added more complexity.

This guy keeps winning.



What is the alternative?

Once upon a time at a **Big 4.**



Somewhere along the way we
forgot our destination.

NIST Cybersecurity Framework



Version 1.0 2014

Version 1.1 2018

Credit: N. Hanacek/NIST

Cybersecurity Framework Example

Function	Category	Subcategory
IDENTIFY (ID)	Risk Assessment(ID.RA): The organization understands the cybersecurity risk to organizational operations (including mission, functions, image, or reputation), organizational assets, and individuals.	ID.RA-1:Asset vulnerabilities are identified and documented
		ID.RA-2:Cyber threat intelligence is received from information sharing forums and sources
		ID.RA-3:Threats, both internal and external, are identified and documented
		ID.RA-4:Potential business impacts and likelihoods are identified
		ID.RA-5:Threats, vulnerabilities, likelihoods, and impacts are used to determine risk
		ID.RA-6: Risk responses are identified and prioritized

Adoption of Cybersecurity Framework

Control Category	Control Expectations are Not Defined or Implemented	Control Expectations are Defined	Control Expectations are Implemented	Control Expectations are Repeated or Reported (Managed)	Control Expectations are Regularly Reviewed and Updated	Control Expectations Audited	Average Measurement Score for Category
Security Objectives within Project Management	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.0
Development, Enhancement, and Acquisition of Systems	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2.0
Software and System Maintenance Agreements	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.0
End-of-life and Obsolete Systems	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4.0
Change Control	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5.0
Reviews and Tests of Critical Changes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4.0
Reviews of Failed Changes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4.0
Asset Data Destruction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4.0
Disposition of Hardware	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.0
Network Inventory Practices	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.0
Network Asset Movement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2.0
Network Equipment Maintenance	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.0

Target Profile

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Control	Control Expectations are Not Defined or Implemented	Control Expectations are Defined	Control Expectations are Implemented	Control Expectations are Repeated or Reported (Managed)	Control Expectations are Regularly Reviewed and Updated	Control Expectations Audited	Average Measurement Score for Category
Security Objectives within Project Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.0
Development, Enhancement, and Acquisition of Systems	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2.0
Software and System Maintenance Agreements	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.0
End-of-life and Obsolete Systems	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2.0
Change Control	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5.0
Reviews and Tests of Critical Changes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3.0
Reviews of Failed Changes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5.0
Asset Data Destruction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4.0
Disposition of Hardware	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1.0
Network Inventory Practices	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2.0
Network Asset Movement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2.0
Network Equipment Maintenance	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.0
Procedures and Schedules for Network Maintenance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.0
Server Inventory Management	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5.0
Backup of Servers Prior to Movement	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.0
Authority and Identification of Individuals for Server Movement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2.0

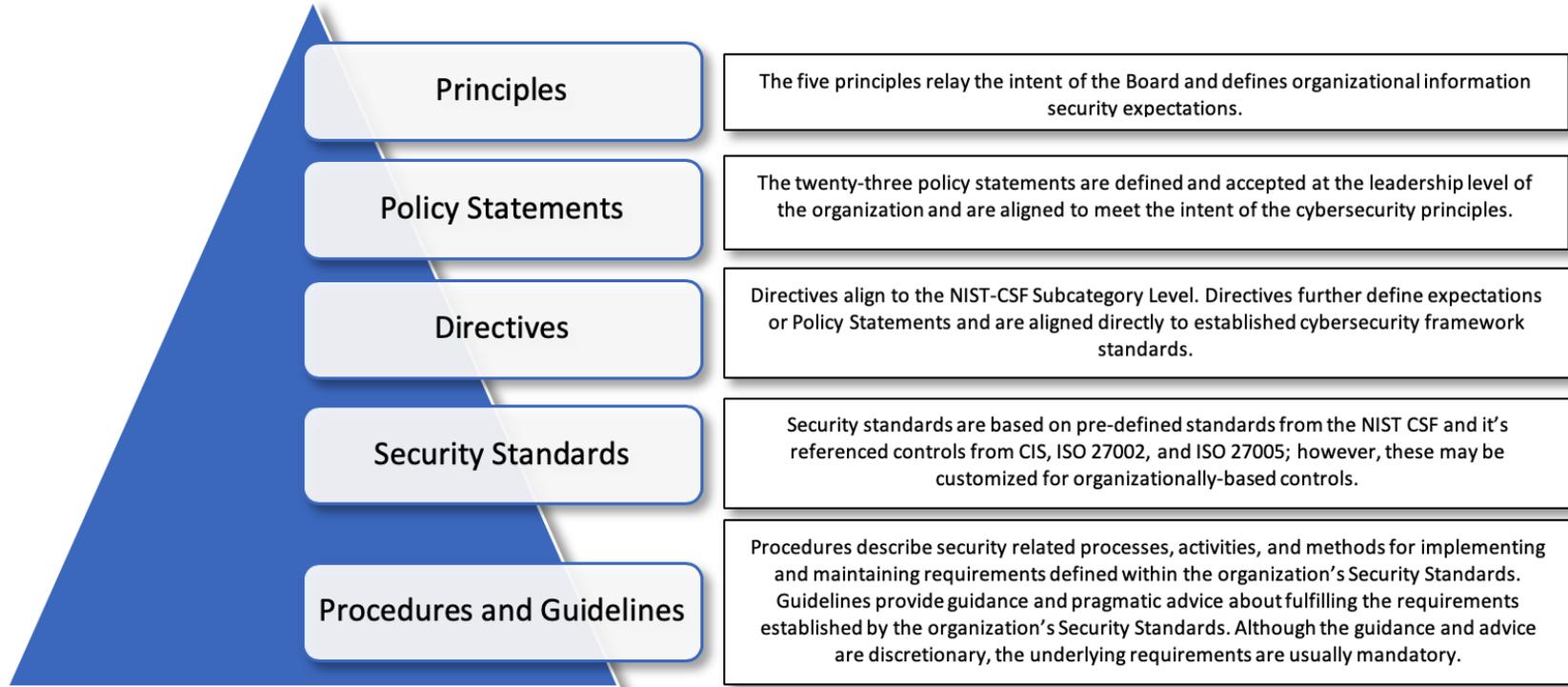
Current Profile

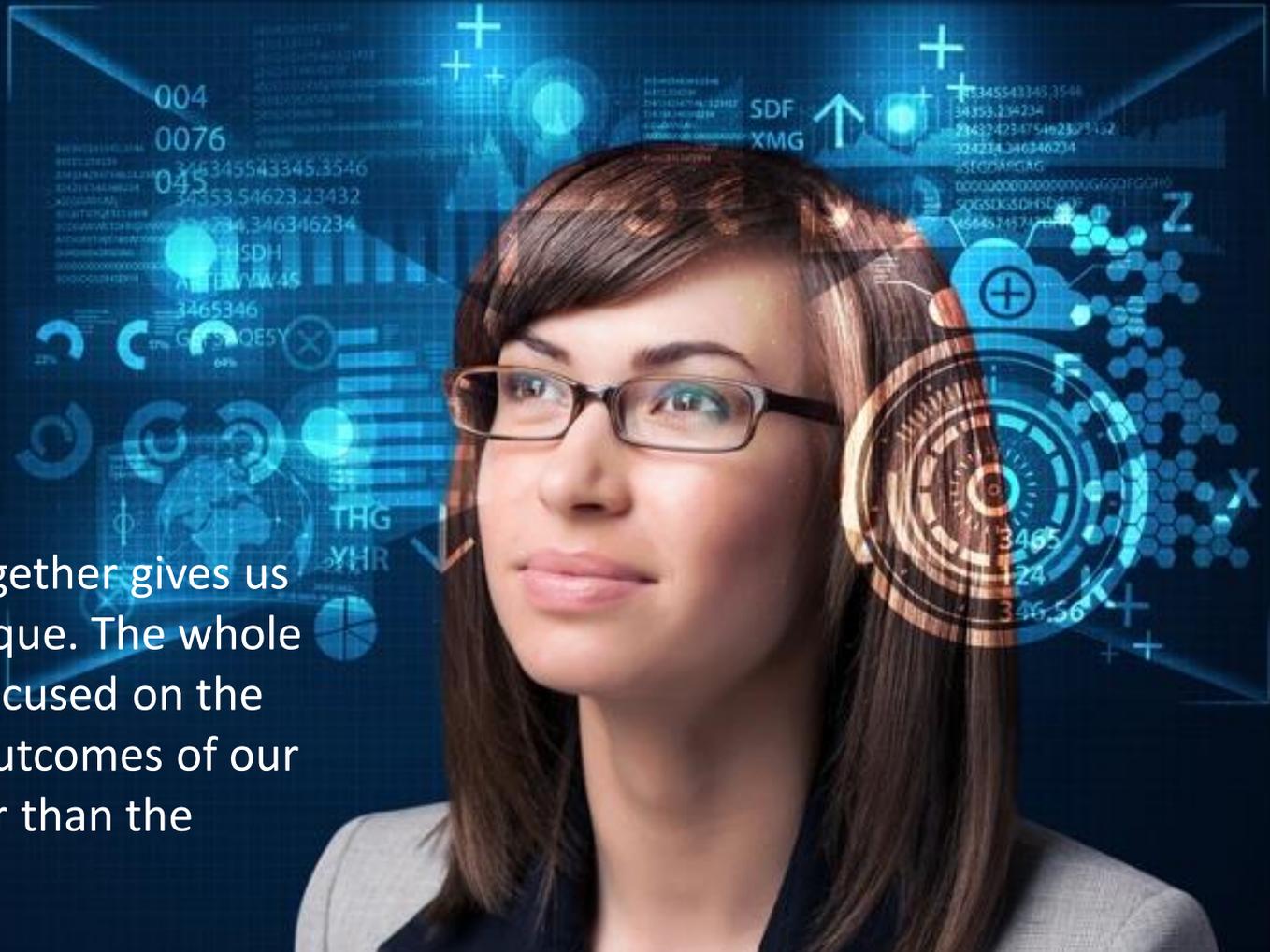
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Action Plan

1. Implement Control
2. Implement Control

Principle Based Policy Governance





Putting this together gives us something unique. The whole organization focused on the benefits and outcomes of our program rather than the controls.

Nothing is Free.



When implemented we have a cybersecurity program with objectives linked to corporate strategy. Those objectives are understood from the Board level down. Requests for investment are linked to the objectives and the risk of not making them is well understood.

Focused on achieving the benefits of our cybersecurity program, we can comply with the HIPAA Security Rule but most importantly **achieve its objectives.**

Thank You & Questions



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