NICE Webinar Series

NATIONAL INITIATIVE FOR CYBERSECURITY EDUCATION

The Intersection of the Privacy and Cybersecurity Workforce

February 19, 2020

NICE Framework Knowledge Descriptions

K0004: Knowledge of cybersecurity and privacy principles.

Privacy Principles

- Organization for Economic Cooperation and Development (OECD) http://www.oecd.org/corporate/mne/1922428.pdf

- Office of Management and Budget Circular A-130 (2016) https://www.whitehouse.gov/sites/whitehouse.gov/files/omb/circulars/A130/a130revised.pdf

Privacy Engineering Objectives

Predictability

Enabling reliable assumptions by individuals, owners, and operators about data and their processing by a system, product, or service

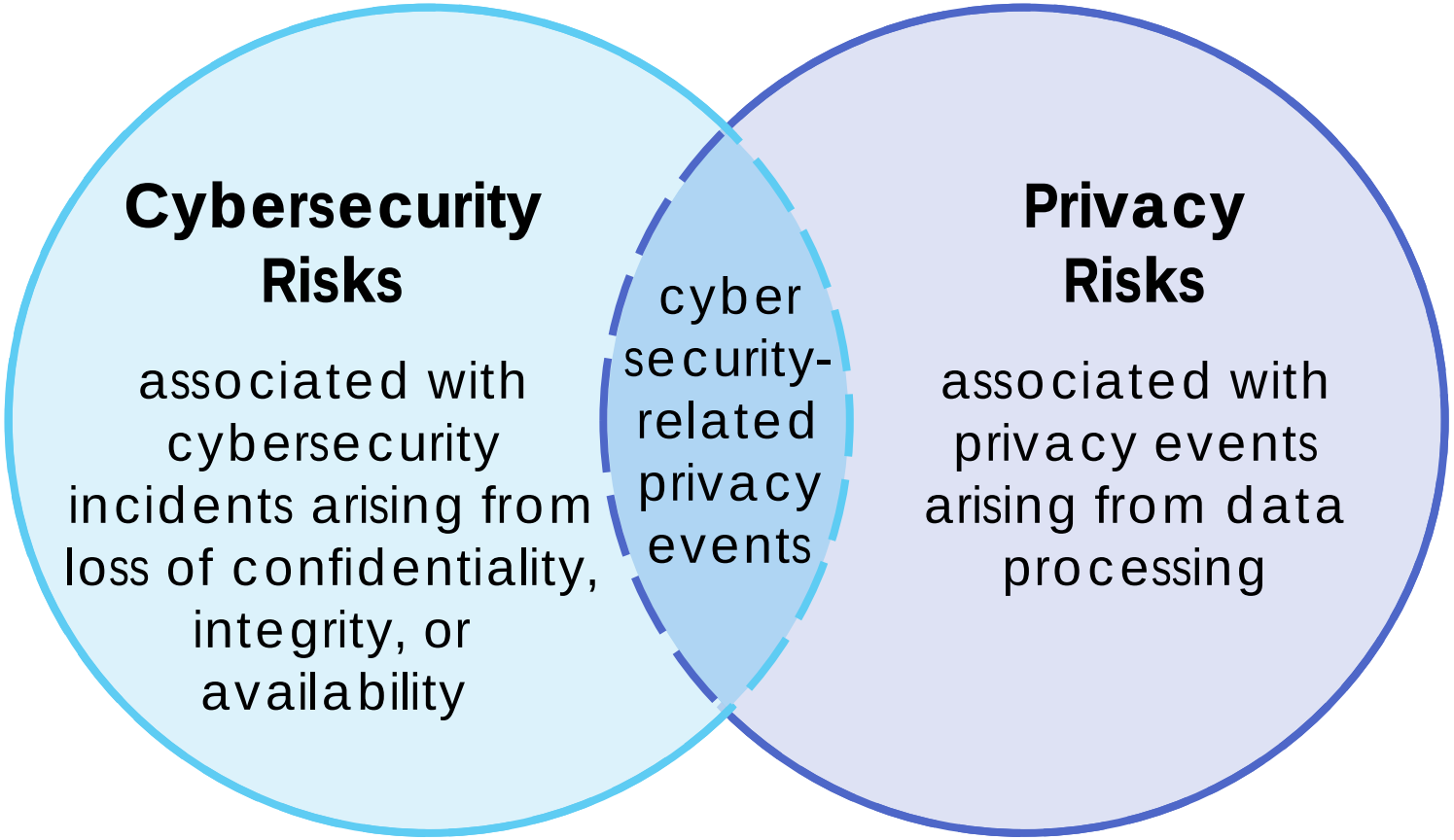
Manageability

Providing the capability for granular administration of data, including alteration, deletion, and selective disclosure

Disassociability

Enabling the processing of data or events without association to individuals or devices beyond the operational requirements of the system

Relationship Between Cybersecurity and Privacy Risk



Data: A representation of information, including digital and non-digital formats

Privacy Event: The occurrence or potential occurrence of problematic data actions

Data Processing: The collective set of data actions (i.e., the complete data life cycle, including, but not limited to collection, retention, logging, generation, transformation, use, disclosure, sharing, transmission, and disposal)

Privacy Risk: The likelihood that individuals will experience problems resulting from data processing, and the impact should they occur

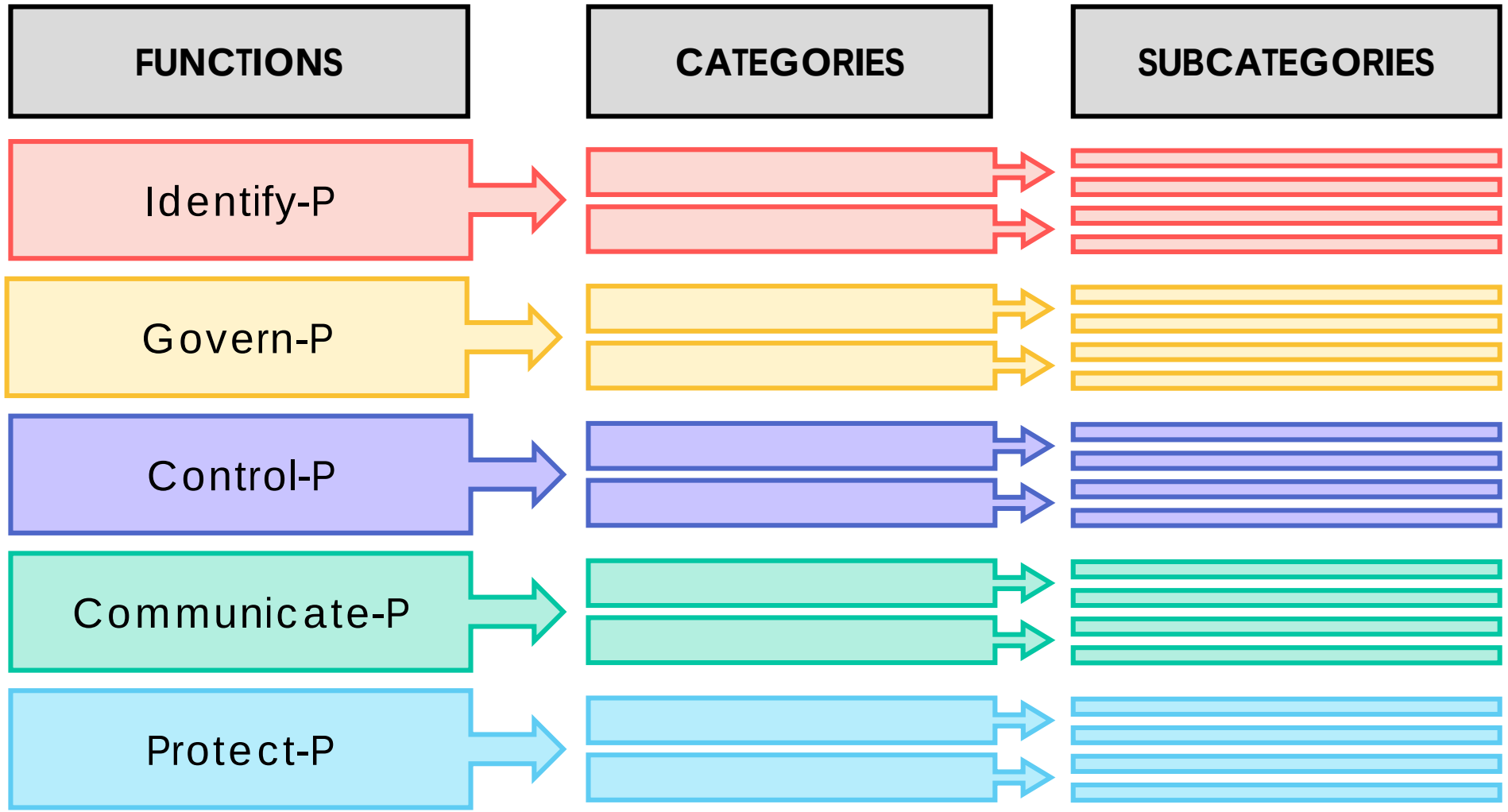
Privacy Framework Structure

The **Core** provides an increasingly granular set of activities and outcomes that enable an organizational dialogue about managing privacy risk

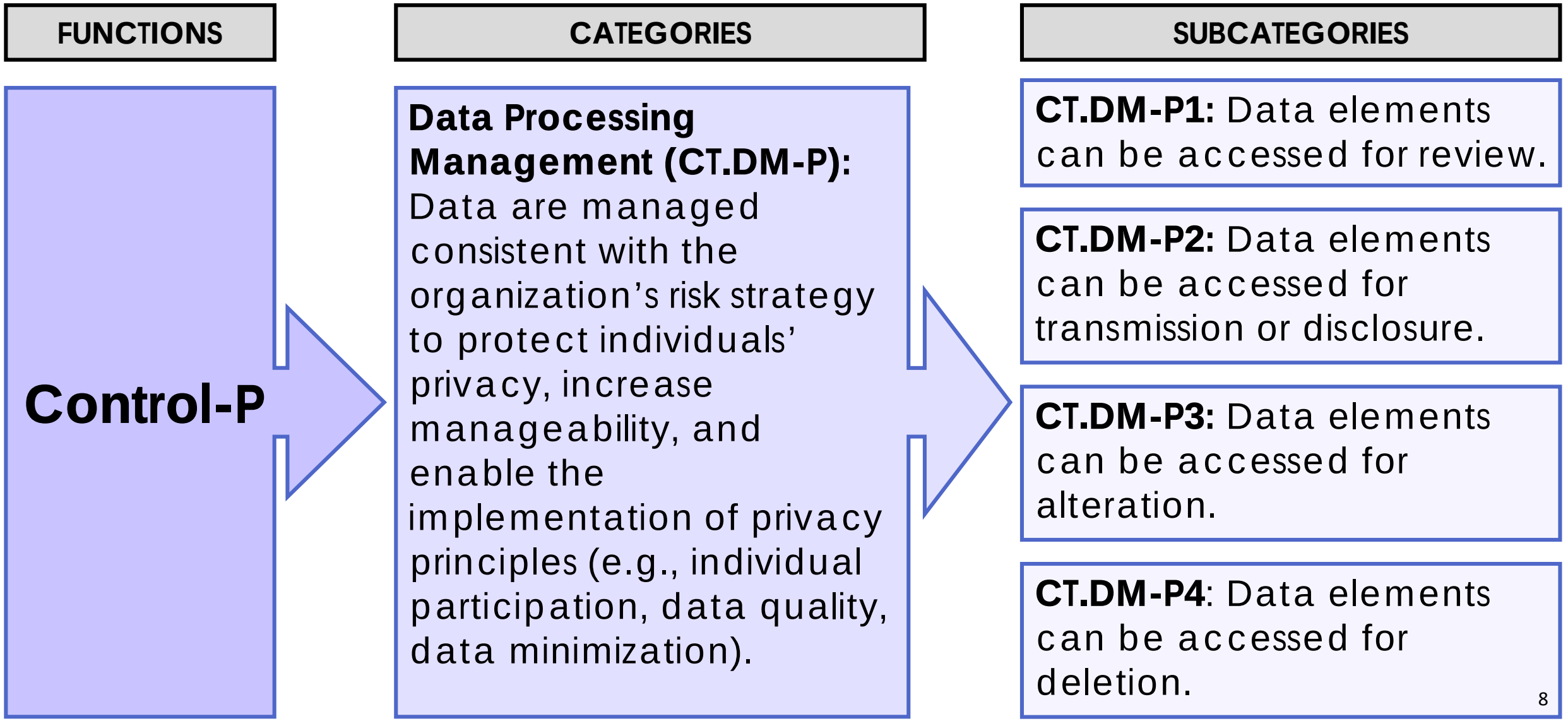
Profiles are a selection of specific Functions, Categories, and Subcategories from the Core that the organization has prioritized to help it manage privacy risk

Implementation Tiers help an organization communicate about whether it has sufficient processes and resources in place to manage privacy risk and achieve its Target Profile

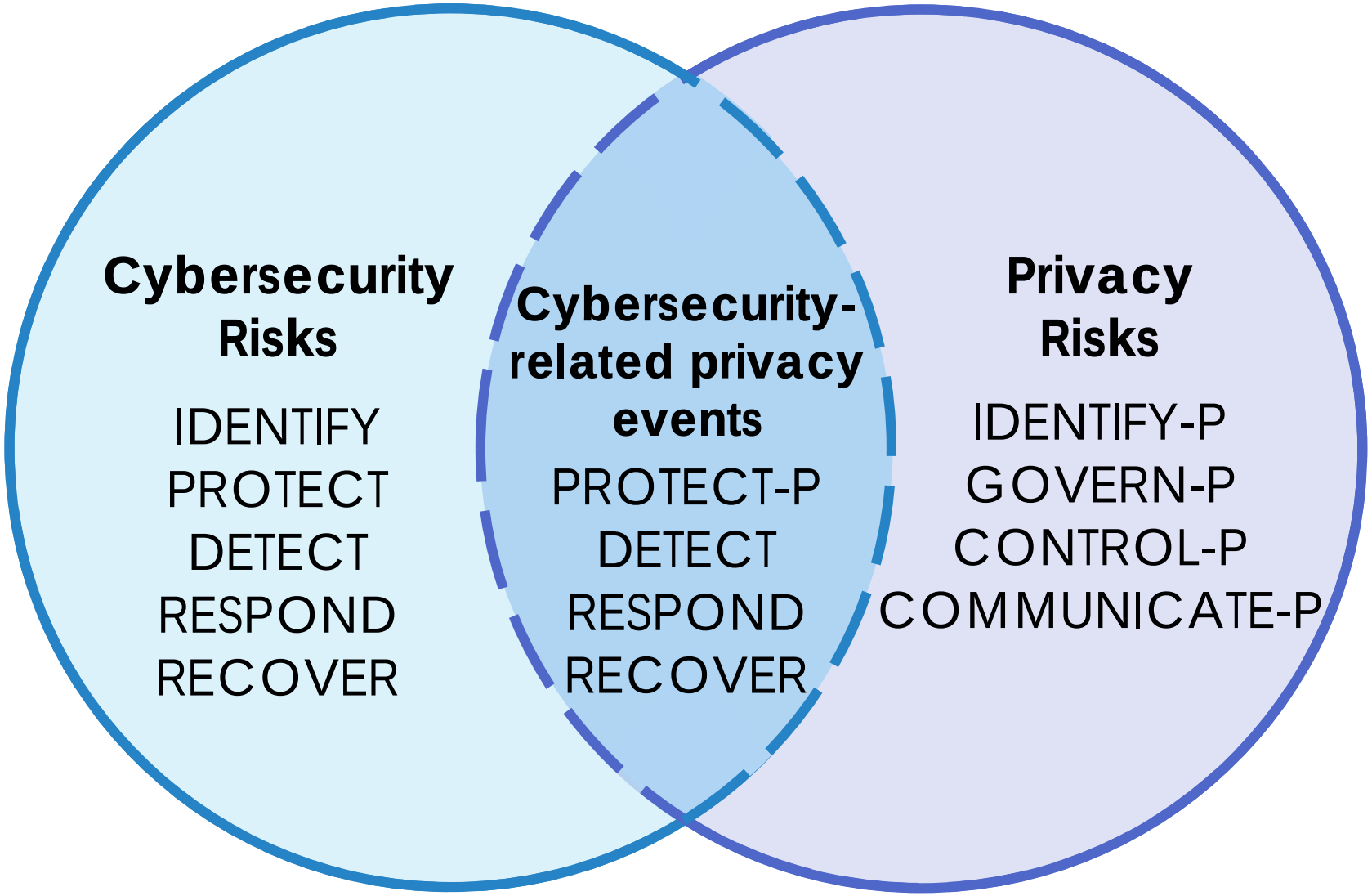
Privacy Framework Core



Control-P Example



Cybersecurity Framework Alignment



Roadmap

- Privacy Risk Assessment
- Mechanisms to Provide Confidence
- Emerging Technologies
- De-Identification Techniques and Re-identification Risks
- Inventory and Mapping
- Technical Standards
- **Privacy Workforce**
- International and Regulatory Aspects, Impacts and Alignment

Privacy Framework Resources

Website

https://www.nist.gov/privacyframework

Mailing List

List.nist.gov/privacyframework

Contact Us

PrivacyFramework@nist.gov

@NISTcyber #PrivacyFramework

Q & A

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NATIONAL INITIATIVE FOR CYBERSECURITY EDUCATION

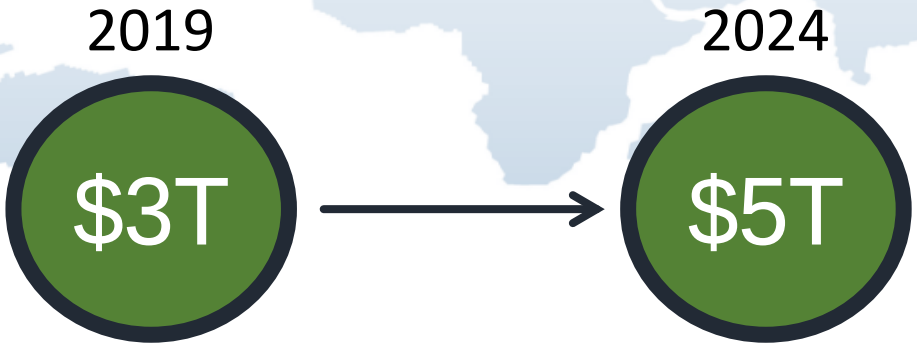
The Mission of the **IAPP** is to Define, Promote and Improve the Privacy Profession Globally.

iapp

international association of privacy professionals

iapp EVENTS

Globally, the laws are becoming more stringent and enforcement is ramping up.



Increasing Cost of Breaches

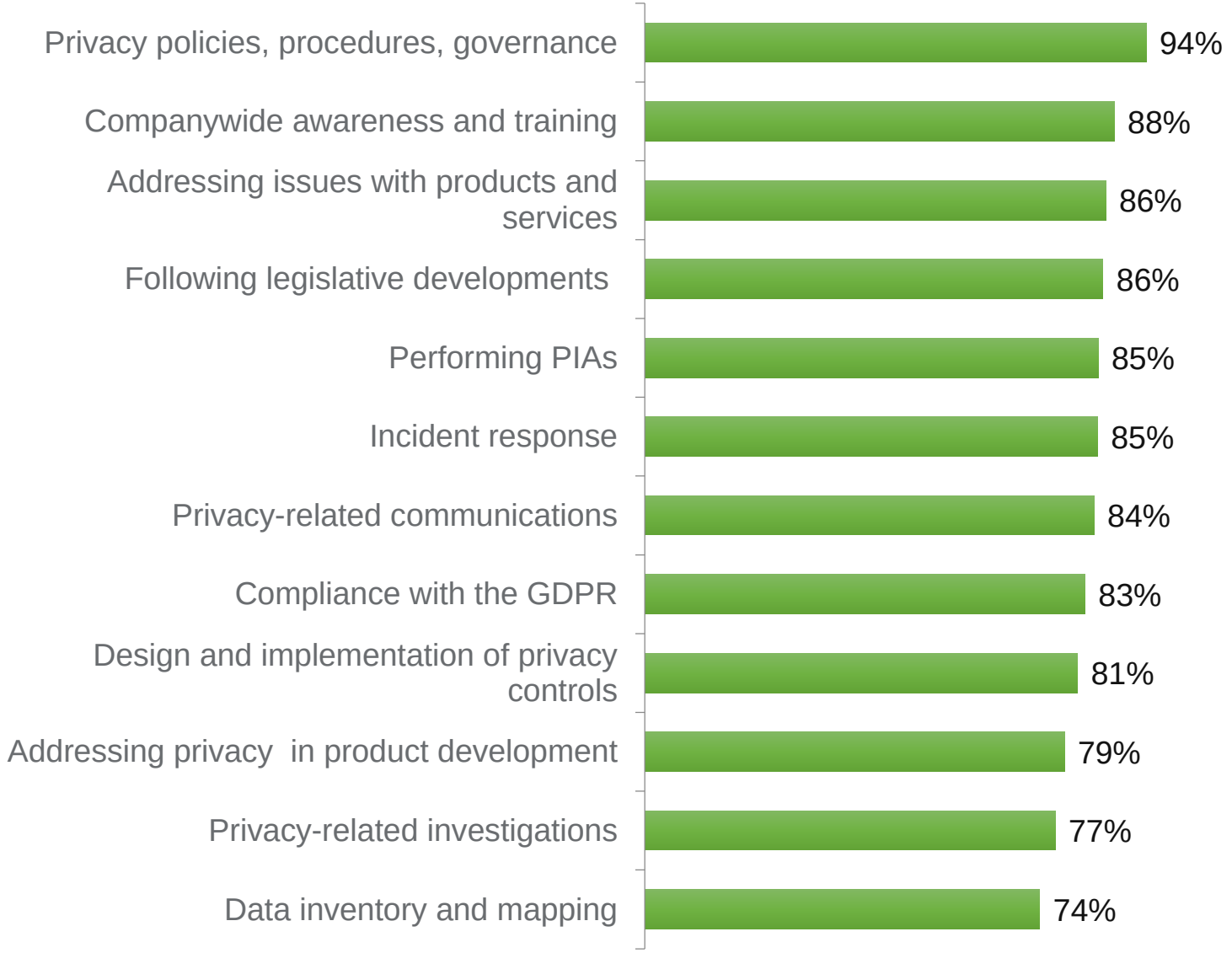
- Juniper research, 8/19

Privacy by Design

Laws *require* compliance with the principles of **Privacy by Design**.

- changes the way to plan, design, build, test and maintain applications
- Affects the way we vet and integrate Third Party Software

What are the overall responsibilities of privacy teams?



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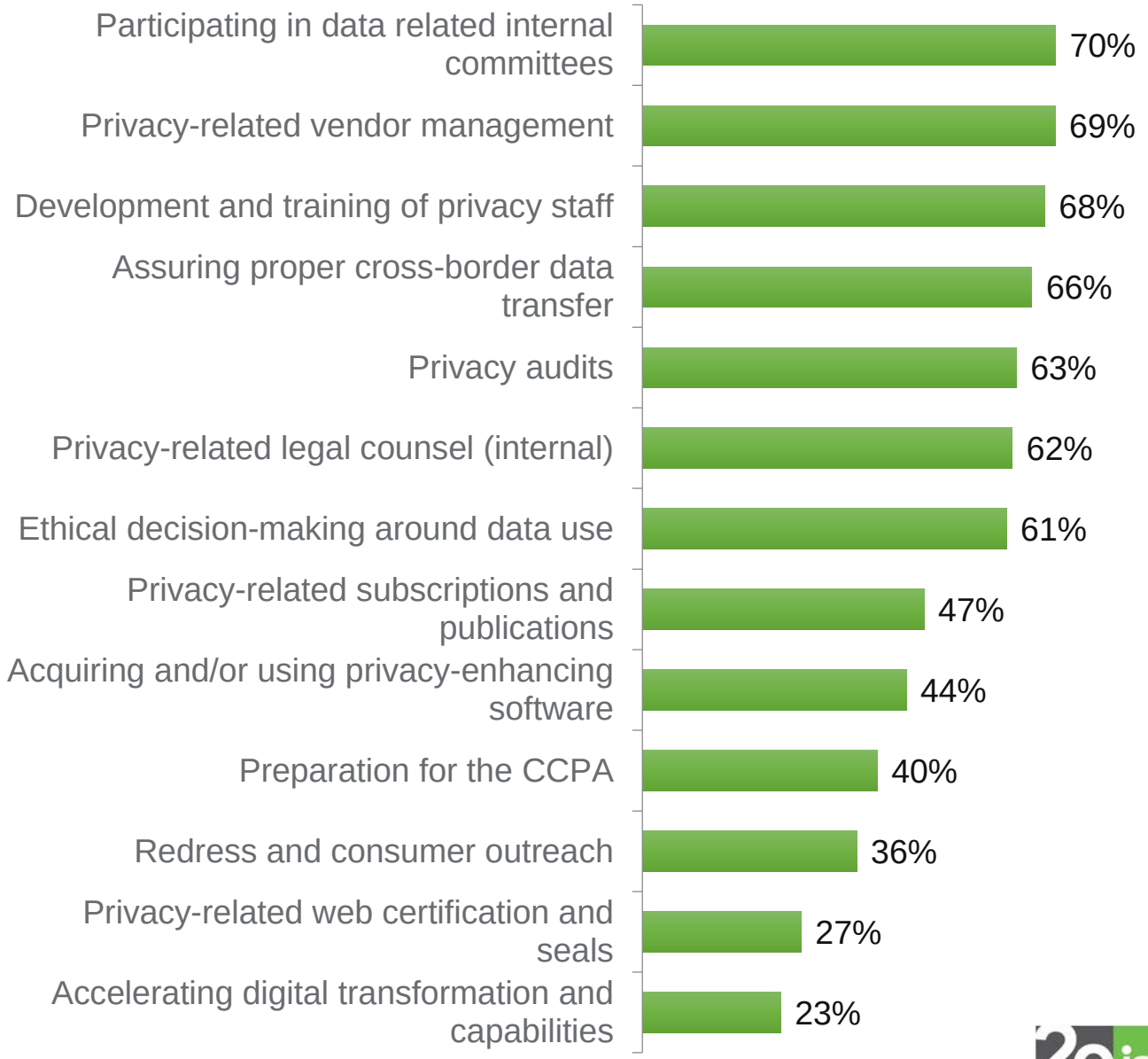


Security is about protection and availability. It requires rules & restrictions.

Privacy is about content, context and usage. It requires **ethics** and **trust**.

NIST Privacy Framework Integrated Core		IAPP Certified Information Privacy Manager (CIPM) Body of Knowledge

Protect-P (PR-P): Develop and implement appropriate data processing safeguards.	**Data Protection Policies, Processes, and Procedures (PR.PO-P):** Security and privacy policies (e.g., purpose, scope, roles and responsibilities in the data processing ecosystem, and management commitment), processes, and procedures are maintained and used to manage the protection of data.	**Domain II. A. a. vi. & D. b. i. & ii.2-4**
		Incident response
		Privacy incidents
		• Legal compliance
		  • Preventing harm
		  • Collection limitations
		  • Accountability
		  • Monitoring and enforcement
		• Develop a privacy incident response plan
		• Identify elements of the privacy incident response plan
		• Integrate privacy incident response into business continuity planning
		
		Domain II. C. e. ii. & iv.
		Monitor
		• Monitor compliance with established privacy policies
		• Compliance monitoring (e.g. collection, use and retention)
		  • Internal audit
		  • Self-regulation
		  • Retention strategy
		  • Exit strategy

	Identity Management, Authentication, and Access Control (PR.AC-P): Access to data and devices is limited to authorized individuals, processes, and devices, and is managed consistent with the assessed risk of unauthorized access.	**Domain II. B. b. i.** Access controls for physical and virtual systems • Access control on need to know • Account management (e.g., provision process) • Privilege management

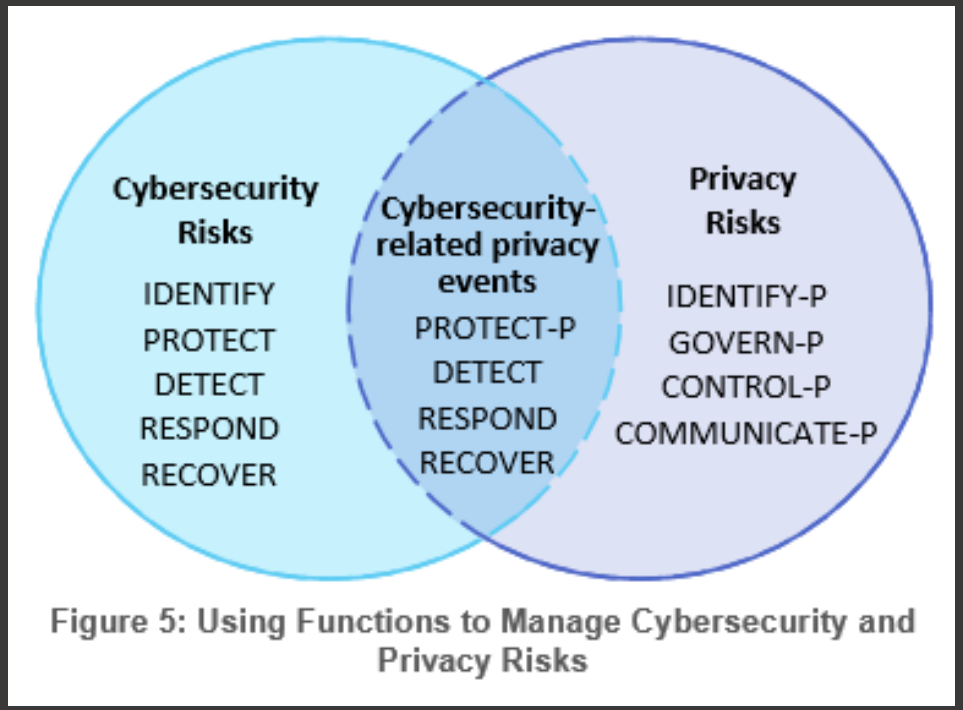


Figure 5: Using Functions to Manage Cybersecurity and Privacy Risks

INFOSEC PROS: BUILD YOUR PRIVACY MUSCLE

https://iapp.org/l/infosec-privacy-knowledge/

Use this grid to assess individual and team privacy skill sets and develop a roadmap for professional development.

iapp.org

INFOSEC PROFESSIONALS NEED FOR PRIVACY KNOWLEDGE

"From a business perspective, the reality is that data about us is going to drive everything we do and the way we interact with each other," said Mark Thompson, Global Privacy Advisory Lead at KPMG |United Kingdom. "This creates a whole new kind of security landscape, which is increasingly centered around PII data risk."

"The goal is protection," said Pa. "Only if security and privacy functions head in the same direction, can we achieve that goal."

"The whole idea of 'reasonable security' as part of a privacy program means it is now the responsibility of security teams to understand privacy. And that has been a big shift," said Dana Simberko, Chief Risk, Privacy, and Information Security Officer at AvePoint Inc. "Privacy laws have significant consequences such as regulatory fines and breach requirements that fall squarely on the shoulders of security. So, there is really no way you can separate the two domains in theory or in practice."

Partnership of Legal and Tech is critical!

IAPP PRIVACY ENGINEERING SECTION

This is where privacy professionals working in the IT and privacy engineering fields come together and connect. The Privacy Engineering Section offers a range of programs, events, content and networking opportunities through which privacy pros working in IT and related fields can connect and advance.

CALLING ALL PRIVACY ENGINEERS!

Experts in the privacy engineering field are being asked to step up and share their expertise. We're looking for speakers to address topics such as user interface design, data ethics in artificial intelligence, privacy by design, de-identification, implementation of privacy technologies and much more.

Q & A

The Intersection of the Privacy and Cybersecurity Workforce

NICE Webinar

Jonathan Fox
Director, Privacy Engineering
February 19 2020

"No matter what market you're in, no matter what service you provide or product you sell… from right now until the end of time, you're in the privacy game. Welcome."

WIRED

THE PRIVACY REVOLT: THE GROWING DEMAND FOR PRIVACY-AS-A-SERVICE

Today’s overlap will deepen and grow

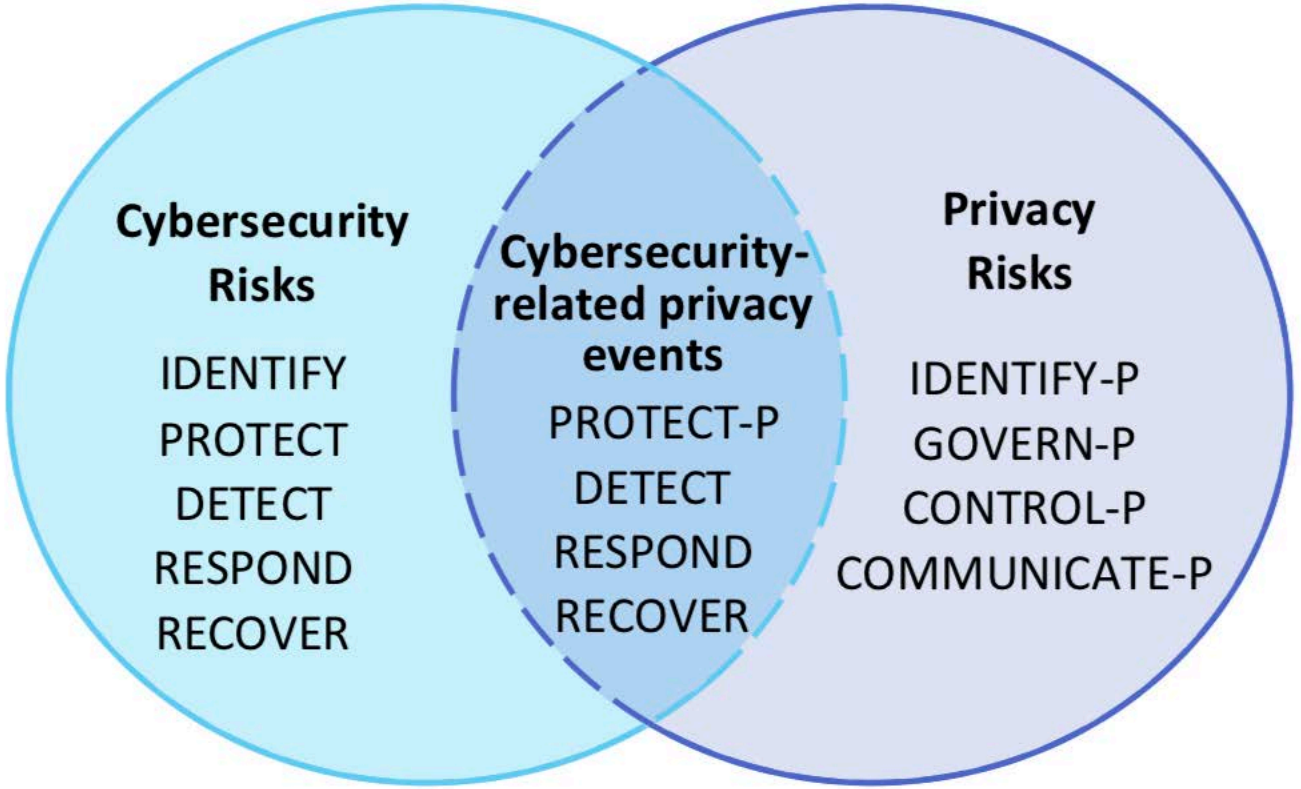
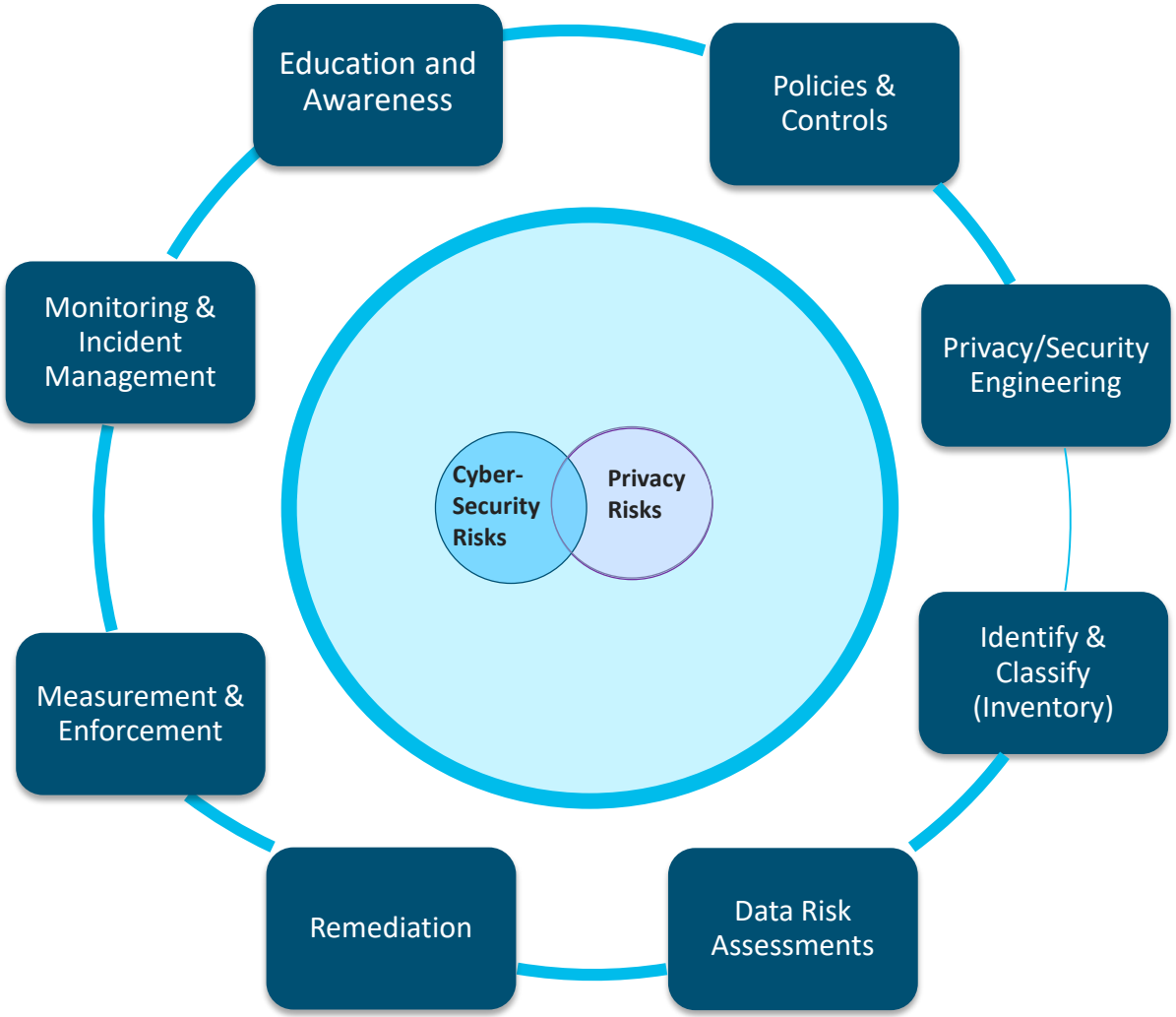


Figure 5: Using Functions to Manage Cybersecurity and Privacy Risks

Functions in the data protection ecosystem will grow



Increased domain expertise will be required

Marketing | Engineering | HR | M&A | IT Ops

Privacy is contextual

In addition to increased standardization of privacy roles and responsibilities, we will see the continued rise of Privacy SMEs in the different business functions

The only constant will be change

- Data will flow
- New purposes will be imagined
- Risk will continue to need to be managed
- New roles and responsibilities will emerge


CISCO

Q & A

Thank You for Joining Us!

Upcoming Webinar: "NICE Framework Uses and Success Stories"

When: Wednesday, March 18, 2020 at 2:00pm EDT

Register: https://nistnice.adobeconnect.com/webinarmar2020/event/registration.html

nist.gov/nice/webinars

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