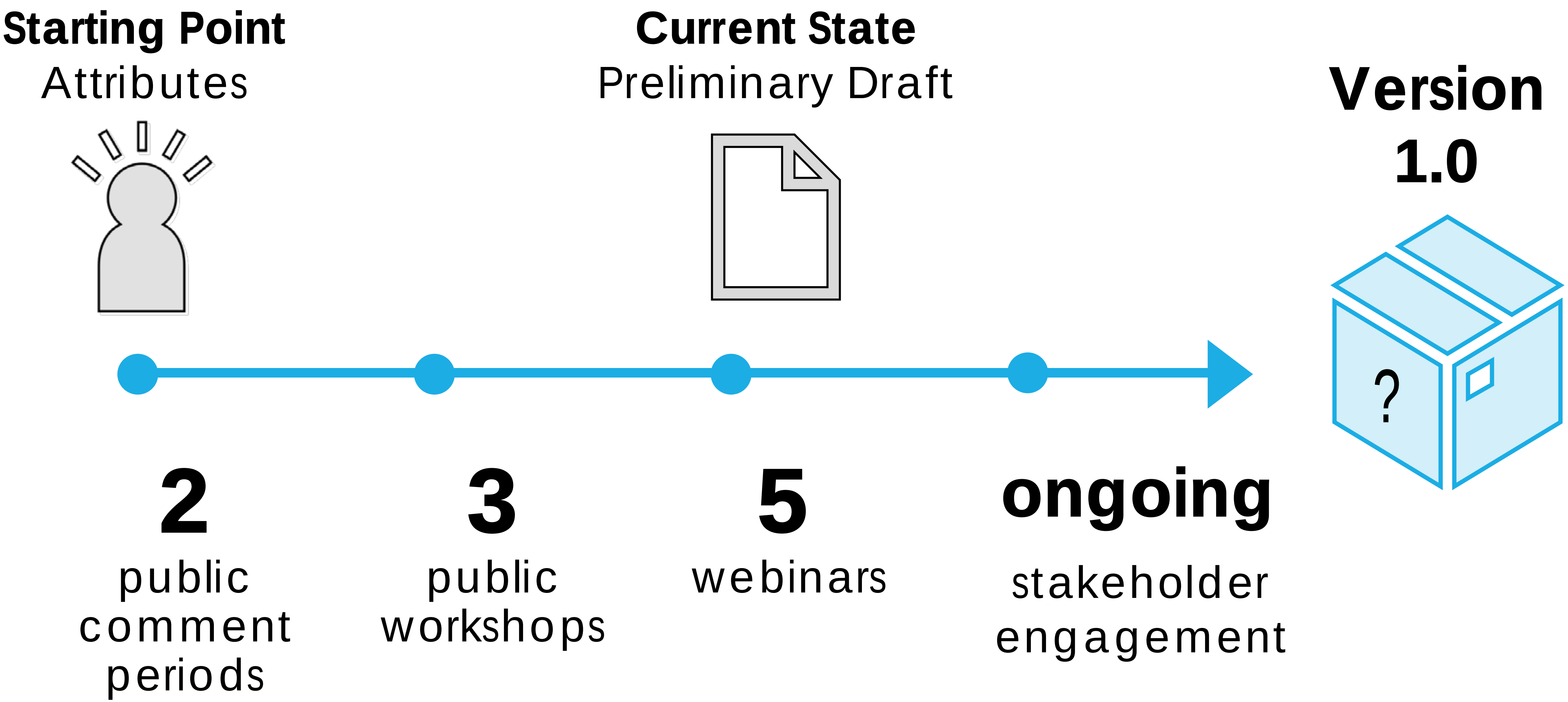
NIST Privacy Framework

A Tool for Improving Privacy Through Enterprise Risk Management

December 2019

National Institute of Standards and Technology
U.S. Department of Commerce

Collaborative Development



Starting Point
Attributes

Current State
Preliminary Draft

Version 1.0

2
public comment periods

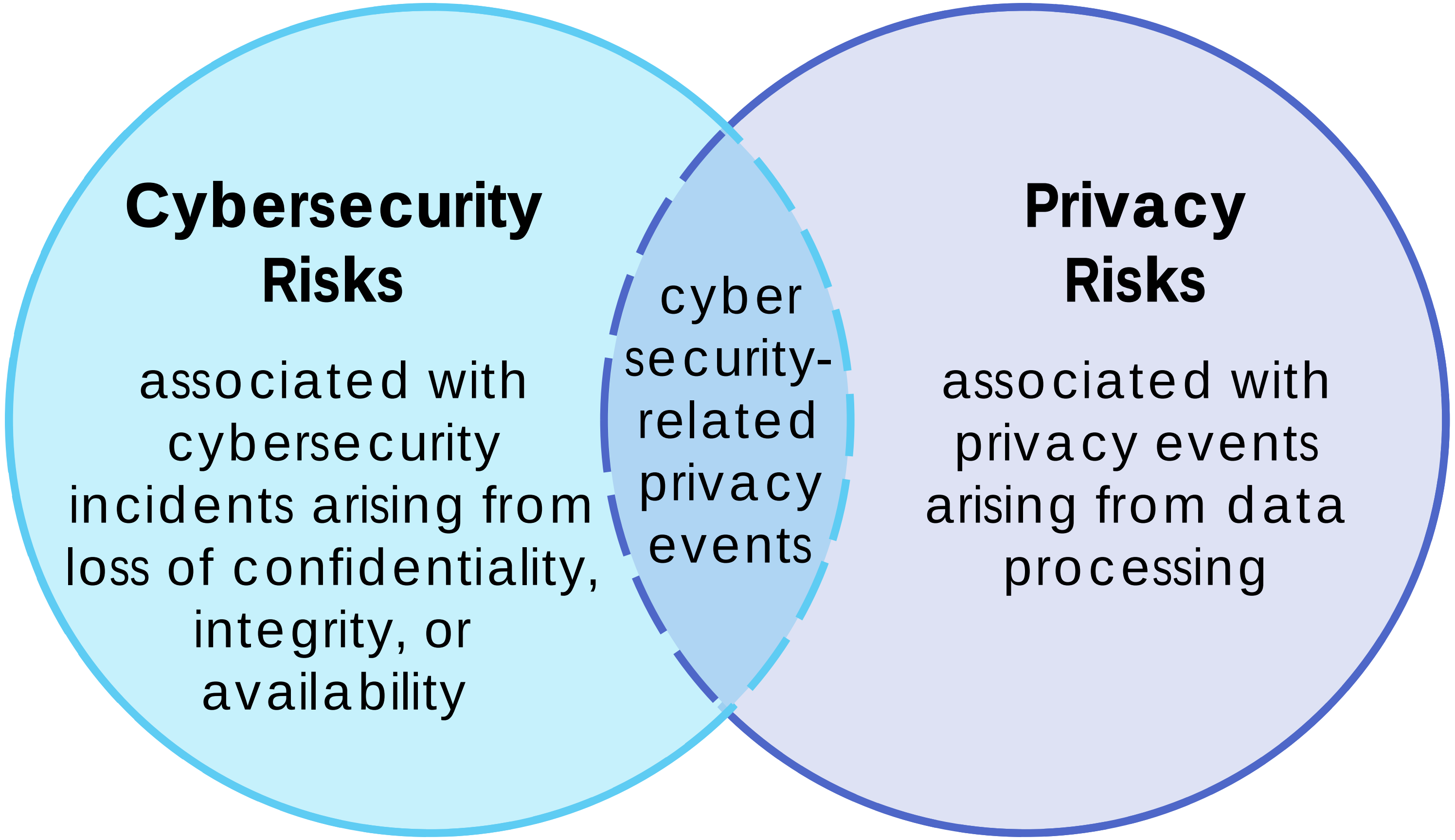
3
public workshops

5
webinars

ongoing
stakeholder engagement

Privacy Risk Management

Relationship Between Cybersecurity and Privacy Risk



Cybersecurity Risks

associated with cybersecurity incidents arising from loss of confidentiality, integrity, or availability

cyber security-related privacy events

Privacy Risks

associated with privacy events arising from data processing

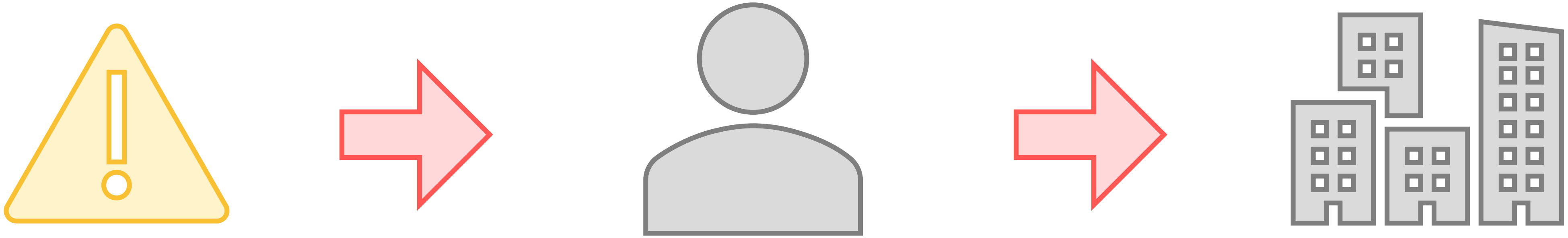
Data: A representation of information, including digital and non-digital formats

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 Risk and Organizational Risk



Problem

arises from data processing

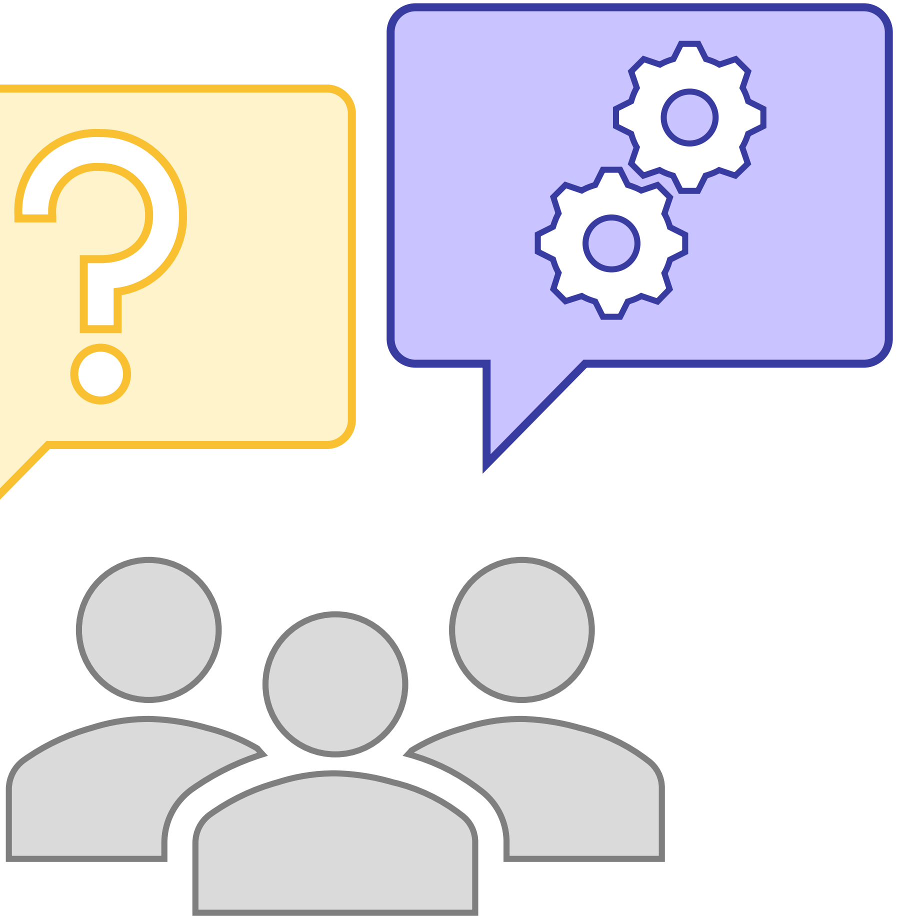
Individual

experiences direct impact
(e.g., embarrassment, discrimination, economic loss)

Organization

resulting impact
(e.g., customer abandonment, noncompliance costs, harm to reputation or internal culture)

Role of Privacy Risk Assessment



Appendix D: Key Privacy Risk Management Practices

Organizing Preparatory Resources

Determining Privacy Capabilities

Defining Privacy Requirements

Conducting Privacy Risk Assessments

Creating Privacy Requirements Traceability

Monitoring Changing Privacy Risks

Privacy Framework Components

Value Proposition

Privacy Framework supports:

Building customer trust

Fulfilling current compliance obligations

Facilitating communication

Privacy Framework Structure

CURRENT
TARGET

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

Core: Functions

Identify-P

Develop the organizational understanding to manage privacy risk for individuals arising from data processing.

Govern-P

Develop and implement the organizational governance structure to enable an ongoing understanding of the organization’s risk management priorities that are informed by privacy risk.

Control-P

Develop and implement appropriate activities to enable organizations or individuals to manage data with sufficient granularity to manage privacy risks.

Communicate-P

Develop and implement appropriate activities to enable organizations and individuals to have a reliable understanding about how data are processed and associated privacy risks.

Protect-P

Develop and implement appropriate data processing safeguards.

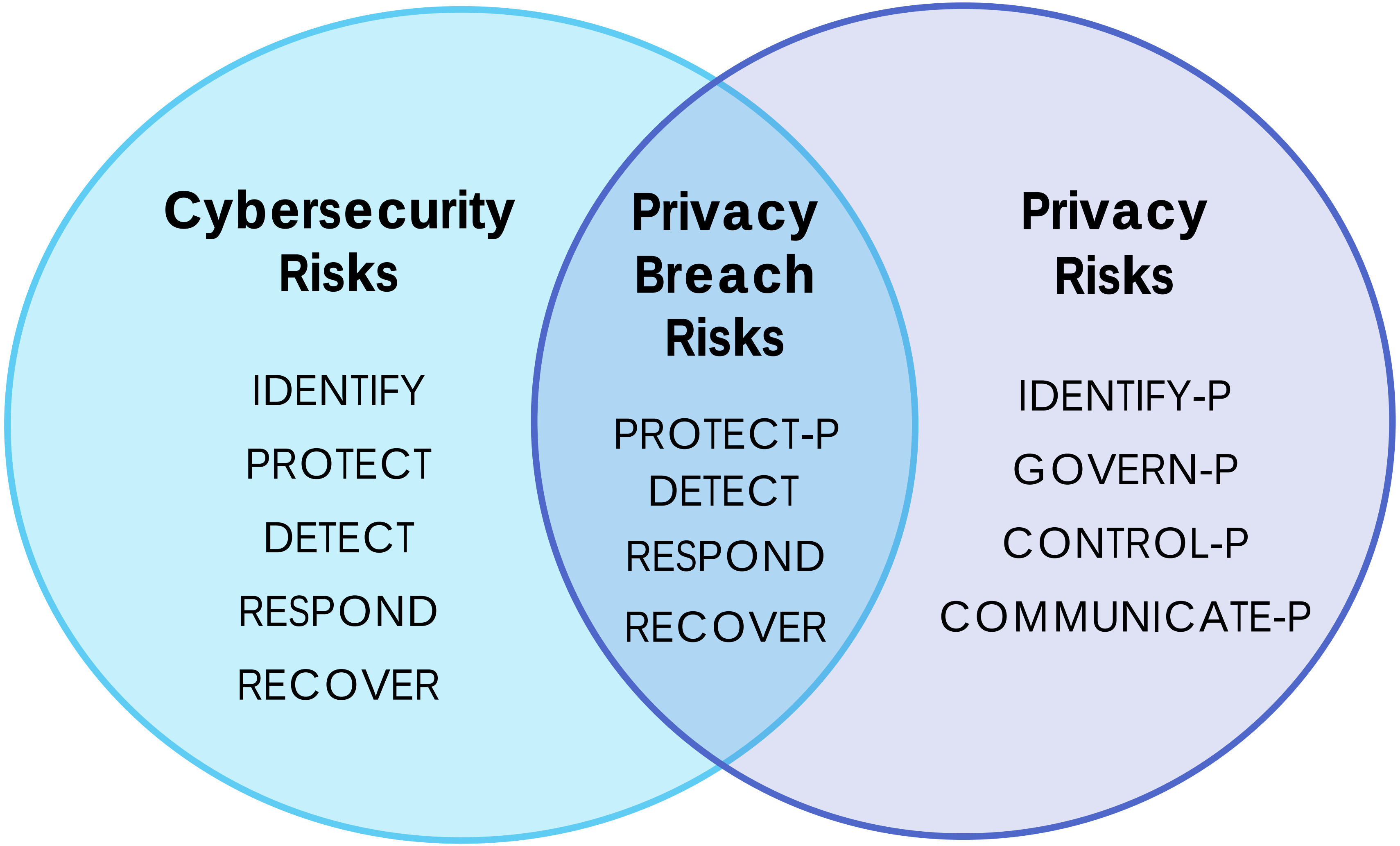
Example Categories

ID-P	**Inventory and Mapping (ID.IM-P)**	Data processing by systems, products, or services is understood and informs the management of privacy risk.
GV-P	**Governance Policies, Processes, and Procedures (GV.PP-P)**	The policies, processes, and procedures to manage and monitor the organization's regulatory, legal, risk, environmental, and operational requirements are understood and inform the management of privacy risk.
CT-P	**Data Management (CT.DM-P)**	Data are managed consistent with the organization's risk strategy to protect individuals' privacy, increase manageability, and enable the implementation of privacy principles (e.g., individual participation, data quality, data minimization).
CM-P	**Data Processing Awareness (CM.AW-P)**	Individuals and organizations have reliable knowledge about data processing practices and associated privacy risks, and effective mechanisms are used and maintained to increase predictability consistent with the organization's risk strategy to protect individuals' privacy.
PR-P	**Data Security (PR.DS-P)**	Data are managed consistent with the organization's risk strategy to protect individuals' privacy and maintain data confidentiality, integrity, and availability.

Example Subcategories

ID-P	ID.IM-P	**ID.IM-P8**	Data processing is mapped, illustrating the data actions and associated data elements for systems/products/services, including components; roles of the component owners/operators; and interactions of individuals or third parties with the systems/products/services.
GV-P	GV.PP-P	**GV.PP-P5**	Legal, regulatory, and contractual requirements regarding privacy are understood and managed.
CT-P	CT.DM-P	**CT.DM-P4**	Data elements can be accessed for deletion.
CM-P	CM.AW-P	**CM.AW-P1**	Mechanisms (e.g., notices, internal or public reports) for communicating data processing purposes, practices, associated privacy risks, and options for enabling individuals' data processing preferences and requests are established and in place.
PR-P	PR.DS-P	**PR.DS-P1**	Data-at-rest are protected.

Cybersecurity Framework Alignment



Cybersecurity Risks

IDENTIFY

PROTECT

DETECT

RESPOND

RECOVER

Privacy Breach Risks

PROTECT-P

DETECT

RESPOND

RECOVER

Privacy Risks

IDENTIFY-P

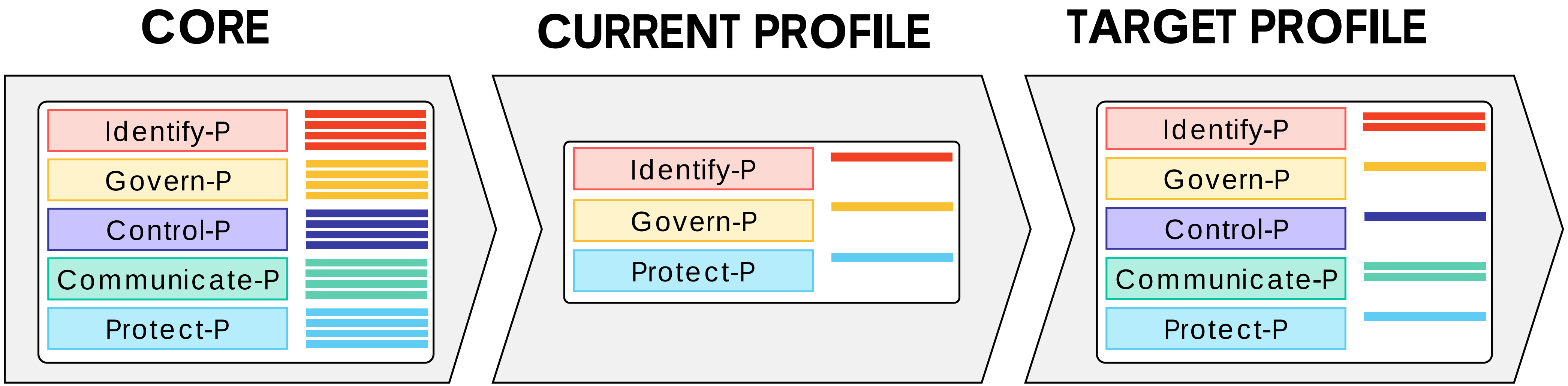
GOVERN-P

CONTROL-P

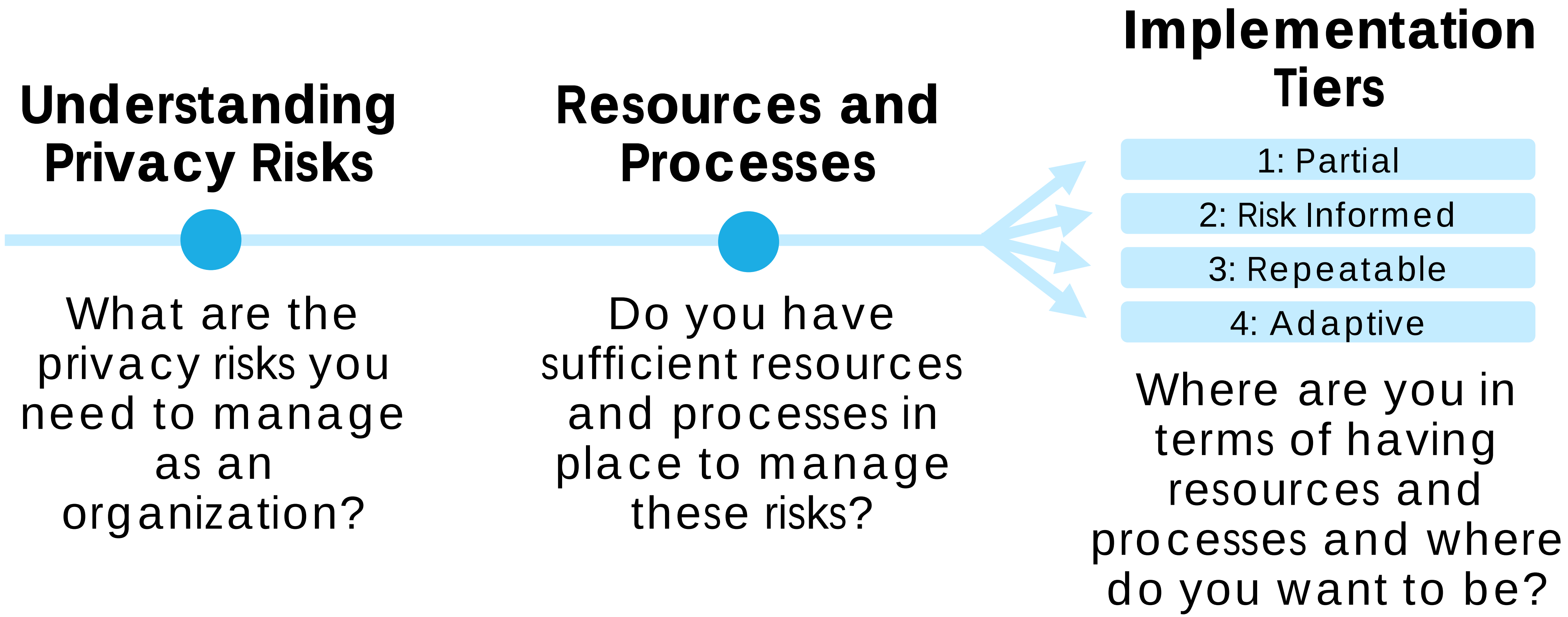
COMMUNICATE-P

Profiles

- Organizational or industry sector goals
- Legal/regulatory requirements & industry best practices
- Organization’s risk management priorities
- Privacy needs of individuals



Implementation Tiers



Understanding Privacy Risks

What are the privacy risks you need to manage as an organization?

Resources and Processes

Do you have sufficient resources and processes in place to manage these risks?

Implementation Tiers

- 1: Partial
- 2: Risk Informed
- 3: Repeatable
- 4: Adaptive

Where are you in terms of having resources and processes and where do you want to be?

How to Use the Privacy Framework

Informative References

Strengthening Accountability

Establishing or Improving a Privacy Program

Applying to the System Development Life Cycle

Using within the Data Processing Ecosystem

Informing Buying Decisions

Informative References

- Specific sections of standards, guidelines, and practices that can be mapped to the Core subcategories and support achievement of the subcategory outcomes
- NIST has provided a mapping of Subcategories to relevant NIST guidance
- NIST will develop a process for accepting external informative references

Next Steps

Laying the Groundwork for the Future

Seeking to improve and overcome challenges around:

- Mechanisms to provide confidence
- Emerging technologies
- Privacy risk assessment
- Privacy workforce
- Re-identification risk
- Technical standards

Adopt me!

- **Trial run** – share insights as feedback
- **V1 use** – lead on privacy
- **NIST repository** – provide use cases and informative references

Resources

Website

https://www.nist.gov/privacyframework

Mailing List

https://groups.google.com/a/list.nist.gov/forum/#!forum/privacyframework

Contact Us

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