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Mission & Vision

OUR VISION:

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OUR MISSION:

Maecenas varius arcu a tellus dictum, id porta nunc porta. Nulla facilisi. Pellentesque ornare ultricies lacus ut cursus :

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- Nulla et urna eget est fermentum malesuada.
- Nulla et urna eget est fermentum malesuada.
- Nulla et urna eget est fermentum malesuada.

Key Organizational Components

[Department]	[Department]	[Department]	[Department]
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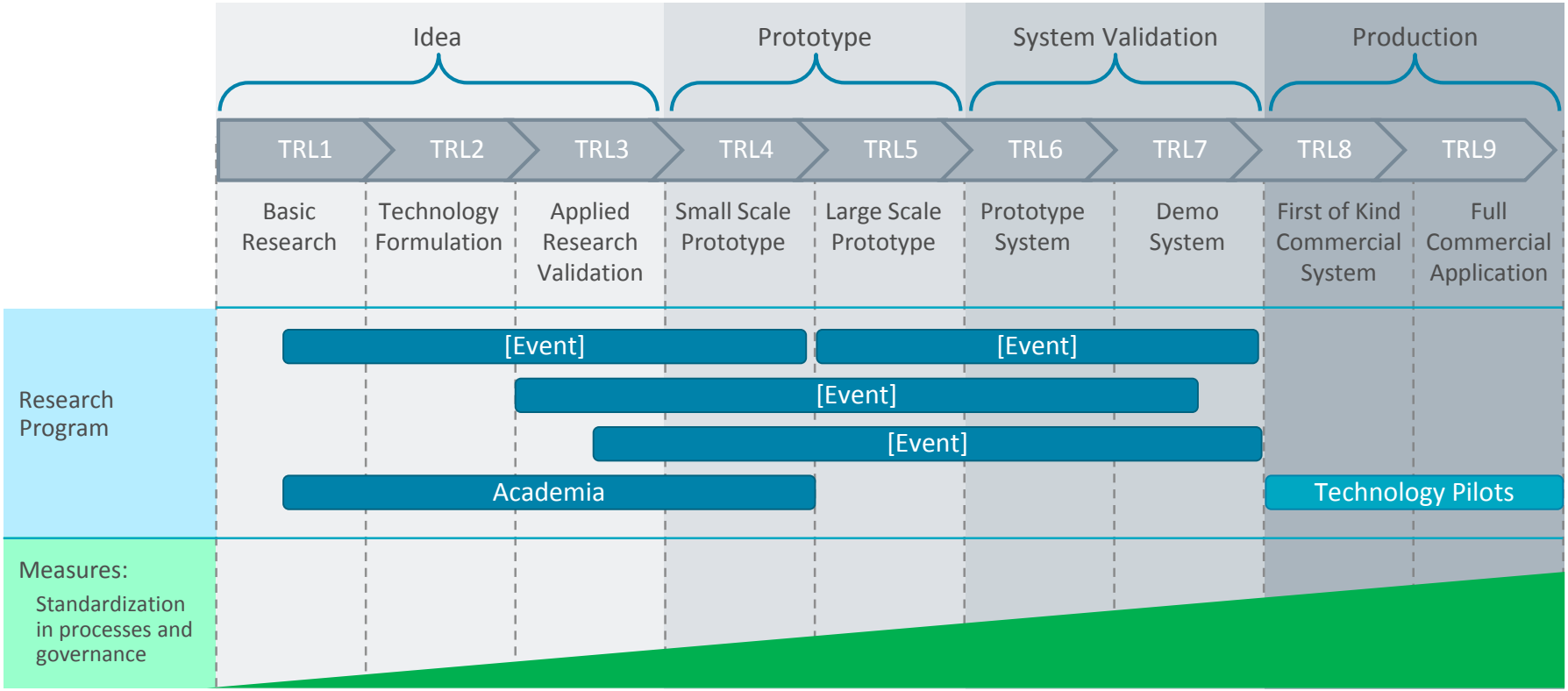
Technology Readiness Level (TRL)* Mapping to Funding and Measures



** Based on NASA Technology Readiness Level*

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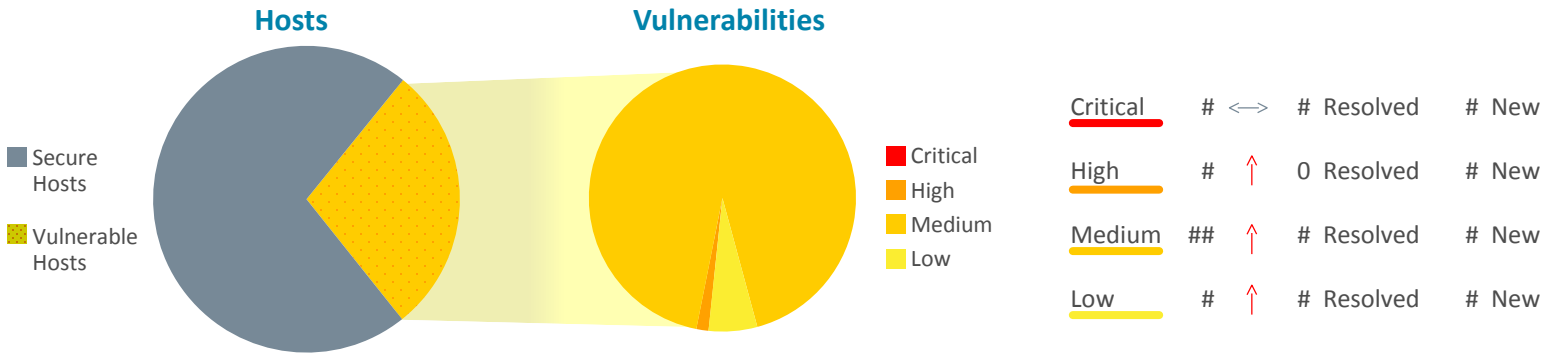
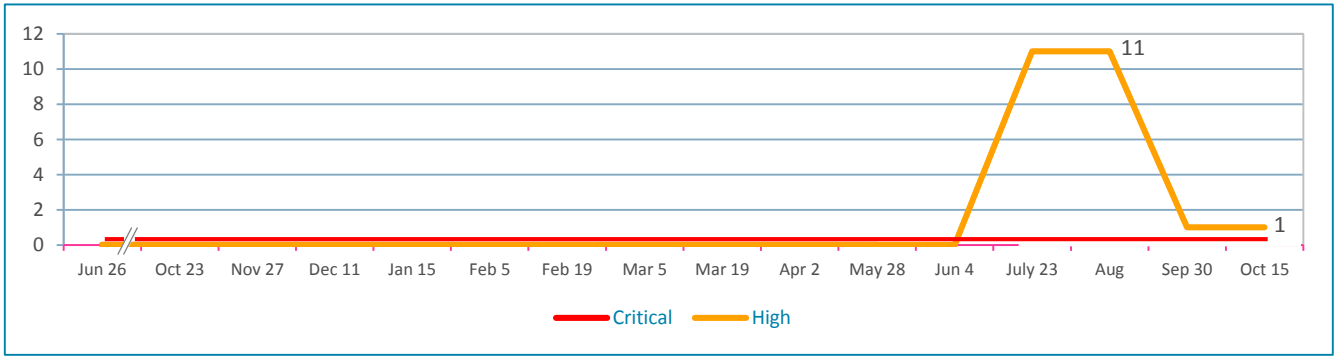
DHS Cyber Hygiene Assessment



Vulnerabilities Over Time

Weeks
Without Critical Vulnerability*



Based on DHS Report

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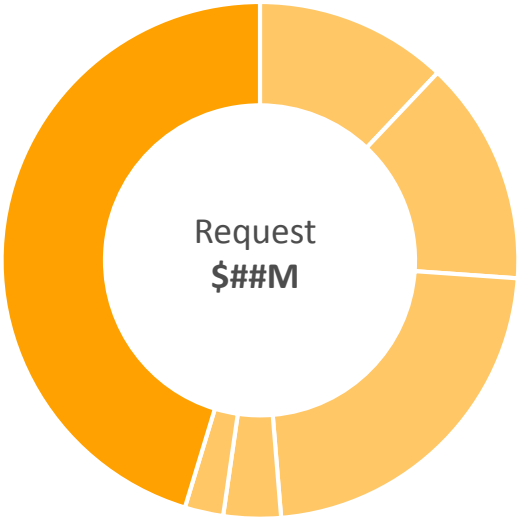
[Group]

Expense	$##
Capital	$##
Total Request	$##

$ in Millions



[Group]

Expense	$##
Capital	$##
Total Request	$##

$ in Millions

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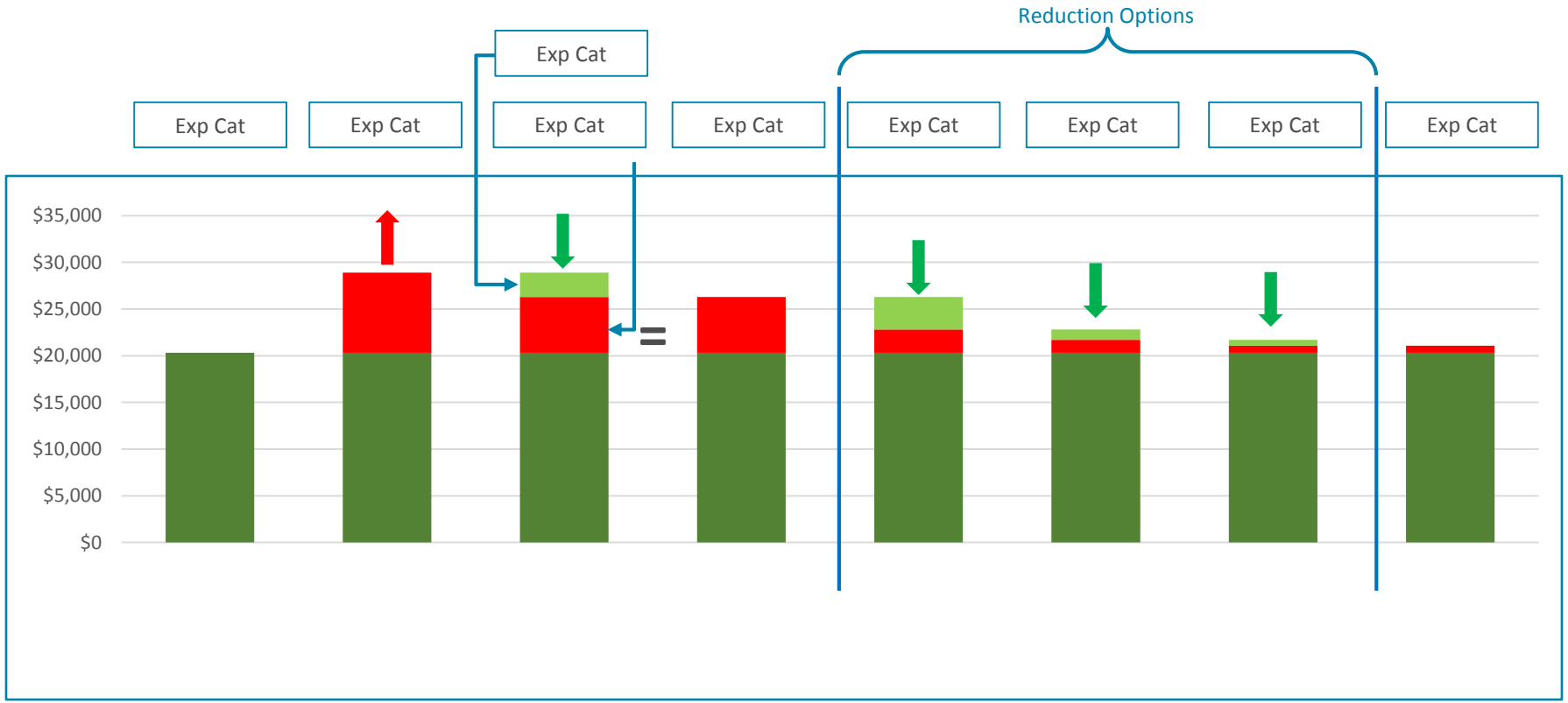
Balance the Budget Options



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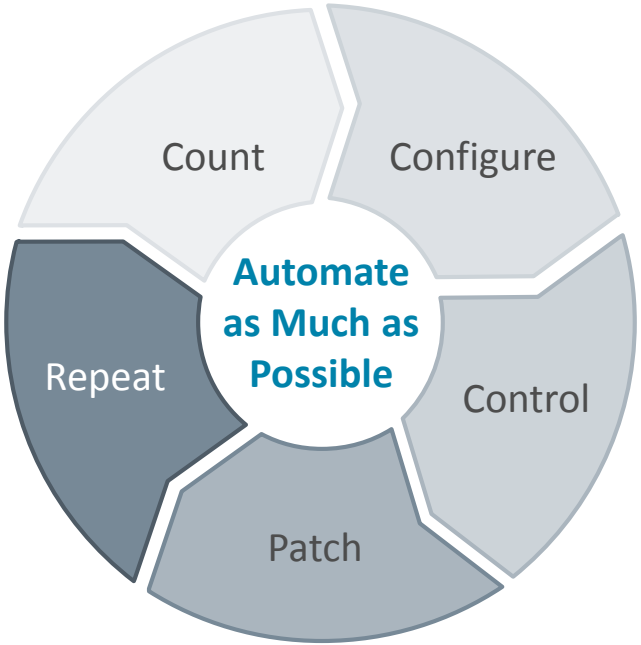
Reduce Vulnerabilities

Patching Process



- Standard Patching
  1. Remote
  2. Automated
  3. Manual
  4. Onsite
- Emergency Patching
  1. Remote
  2. Automated
  3. Manual
  4. Onsite

[Logo]

[Upcoming Event]

About [event]

- [Event] is an R&D program directed by the CPUC and the California Legislature

[org] Project Objective

- Address foundational research requirements for next-generation of cybersecurity, in particular a threat-aware grid architecture to enable “Machine-to-Machine Automated Threat Response (MMATR)”

Timeframe

- 2015-2019

Target Outcomes

Model

Lab Simulation System

Test

Physical Test Bed

Share

Research Package

Partners

Partner Logo masked

Partner Logo masked

Partner Logo masked

Partner Logo masked

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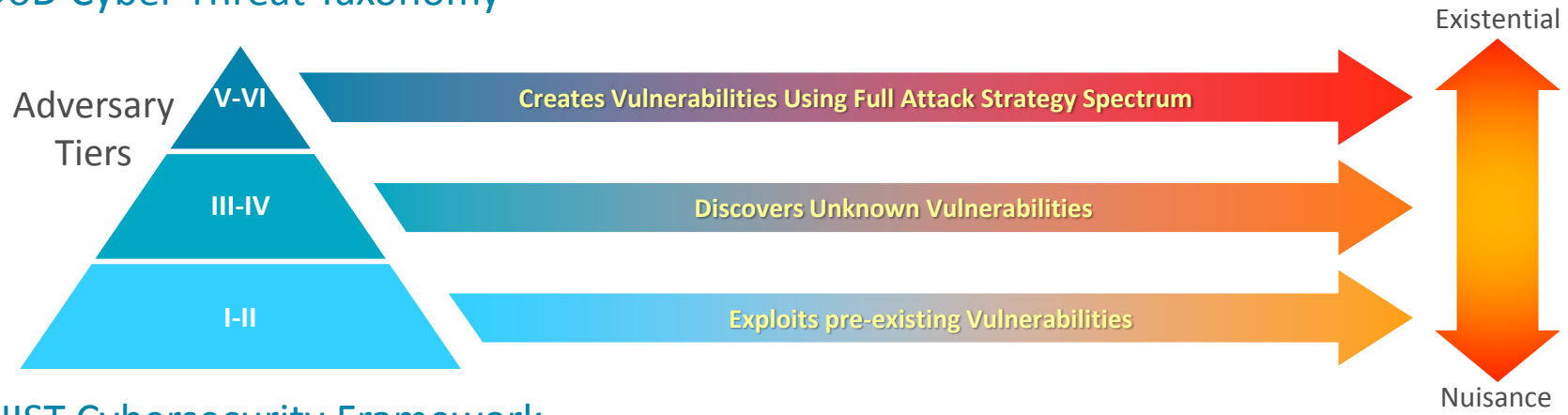
Threat Taxonomy & Defense Frameworks

DoD Cyber Threat Taxonomy



NIST Cybersecurity Framework

Identify	Identify assets and threats. Securely share threat intel
Protect	Implement technical protections
Detect	Detect potential incidents
Respond	Safely respond at machine speed
Recover	Quickly recover grid to reliable status
Endure	Maintain resilience in adverse conditions

[Logo]

Grid Cyber Security Capability Space

	Low-tier Adversaries	Mid-tier Adversaries	Sophisticated-tier Adversaries
Identify	Basic Risk Assessment	Targeted Risk Assessment	Complex simulation-informed risk assessment
Protect	Basic Security Protections	Protection Against Standard Known Threats	Protections Against Utility-Specific Threats
Detect	Known Threats Only	Detect Well Known Threats, No New / Targeted Threats	Detect Real Time, Zero Day Threats
Respond	Manual Response After Event	Real Time Threat Info, Automated Grid Response	Real Time Dynamic Response to Grid Events
Recover	Pre-Planning Only, Manual Recovery	Post-Event Analysis and Event Reconstruction	Automated Grid Event Recovery
Endure	Manual Event Isolation	Basic Automation for Real Time Isolation	Fully-Automated Real Time Threat Isolation

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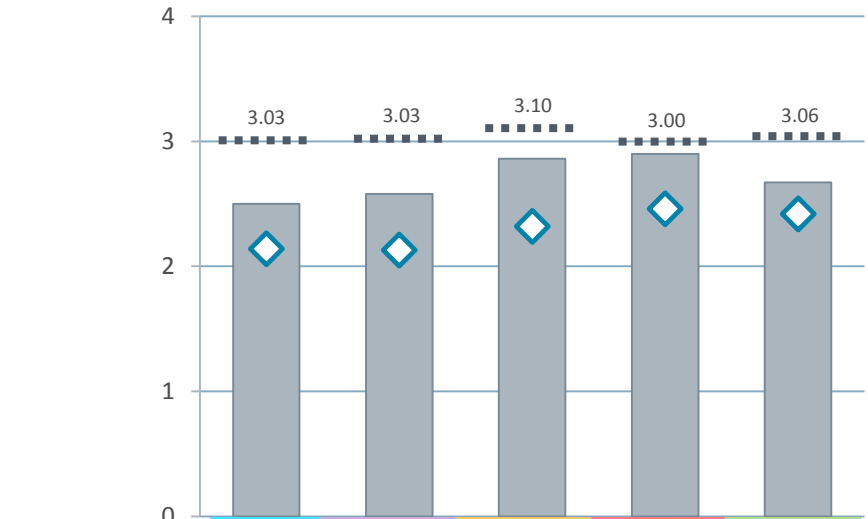

	Identify	Protect	Detect	Respond	Recover
[masked]	2.50	2.58	2.86	2.90	2.67
[masked]	2.14	2.13	2.32	2.46	2.42
[masked]	3.03	3.03	3.10	3.00	3.06

Top 15 Maturity Projects

	Project	Planned Close
1	[Project[	[date]
2	[Project[	[date]
3	[Project[	[date]
4	[Project[	[date]
5	[Project[	[date]
6	[Project[	[date]
7	[Project[	[date]
8	[Project[	[date]
9	[Project[	[date]
10	[Project[	[date]
11	[Project[	[date]
12	[Project[	[date]
13	[Project[	[date]
14	[Project[	[date]
15	[Project[	[date]

[Logo]

Continuous Improvement Activities

[Title]

##	##	##	##
Total Activities	Active Activities	Pending Activities	Completed Activities

Status		Activities		Planned Close
>	1	Program/Project		[date]
>	2	Program/Project		[date]
>	3	Program/Project		[date]
>	4	Program/Project		[date]
>	5	Program/Project		[date]
>	6	Program/Project		[date]
>	7	Program/Project		[date]
>	8	Program/Project		[date]

[Title]

##	##	##	##
Total Activities	Active Activities	Pending Activities	Completed Activities

Status		Activities		Planned Close
>	1	Program/Project		[date]
>	2	Program/Project		[date]
>	3	Program/Project		[date]
>	4	Program/Project		[date]
>	5	Program/Project		[date]
>	6	Program/Project		[date]
>	7	Program/Project		[date]
>	8	Program/Project		[date]

[Logo]

Previous Vulnerability Management

- Bullet points – not actual data
- Bullet points – not actual data
- Bullet points – not actual data
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- Bullet points – not actual data
- Bullet points – not actual data

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New Vulnerability Management Solution

Benefits include:

- Bullet points – not actual data
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- Bullet points – not actual data
- Bullet points – not actual data
- Bullet points – not actual data

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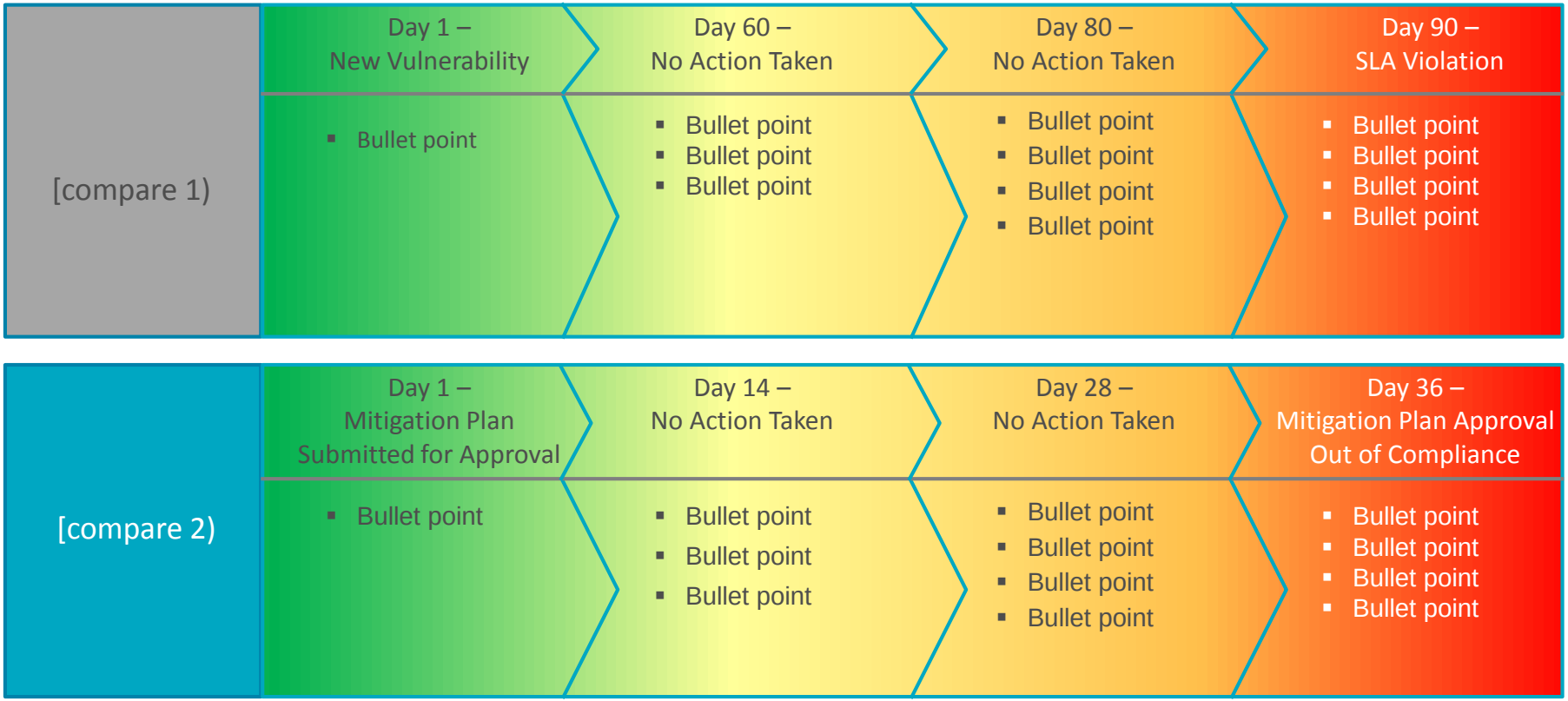
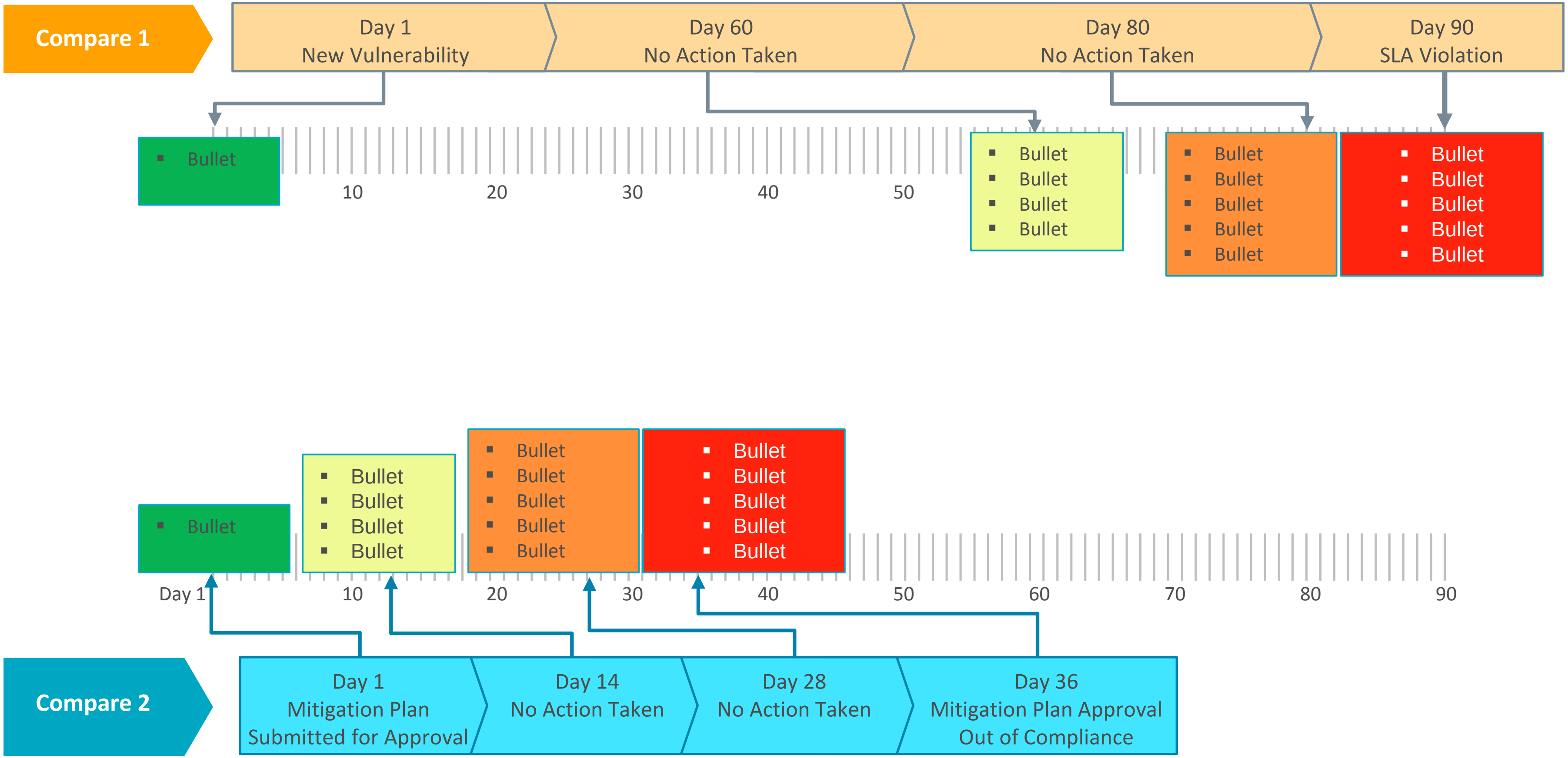
Automated Notifications and Escalations



Automated Notifications and Escalations



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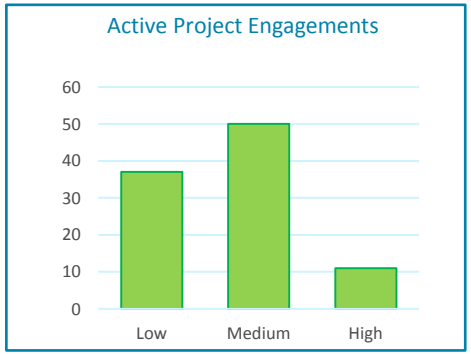

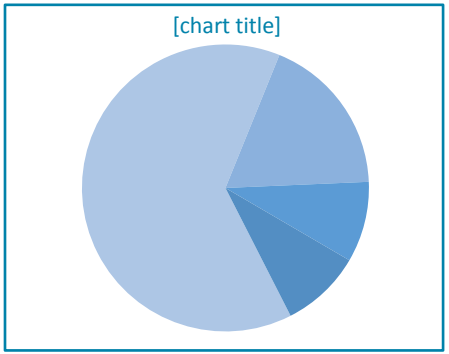

Pending RIP Score: 102

Wins & Successes

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Risk & Challenges

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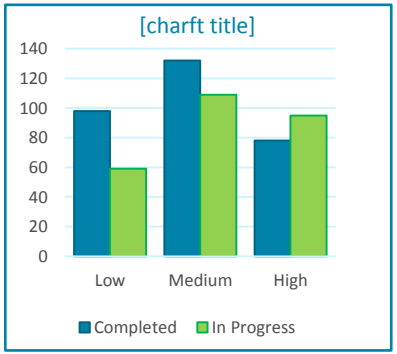

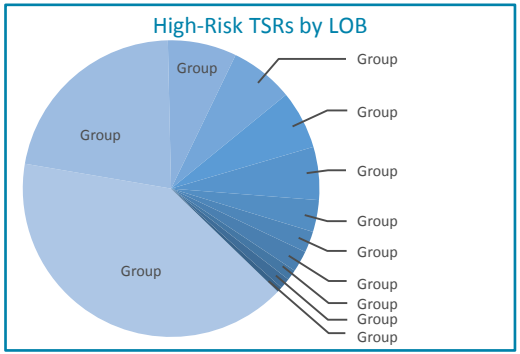

Wins & Successes

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- Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce eu quam ornare, porta magna at, commodo dolor. Sed mollis sollicitudin facilisis.

Risk & Challenges

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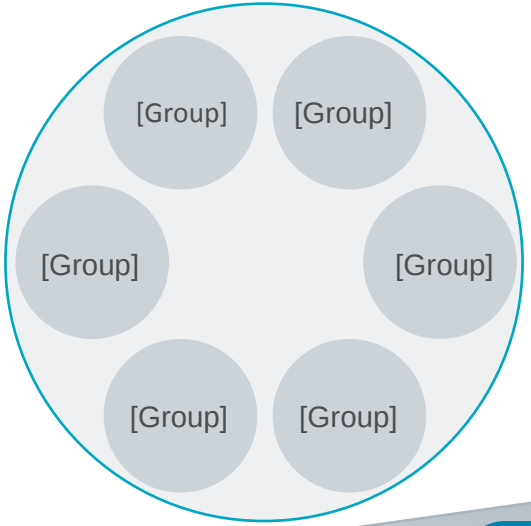
External Engagement Sectors

Sectors



Spectrum of Engagement

Monitor
Limited Engagement

Inform
One Way Engagement

Transactional
Two Way Engagement, Information Sharing

Involve
Bi-directional, Concerns understood or feedback sought

Drive
Multi Way Engagement, Joint Decision Making

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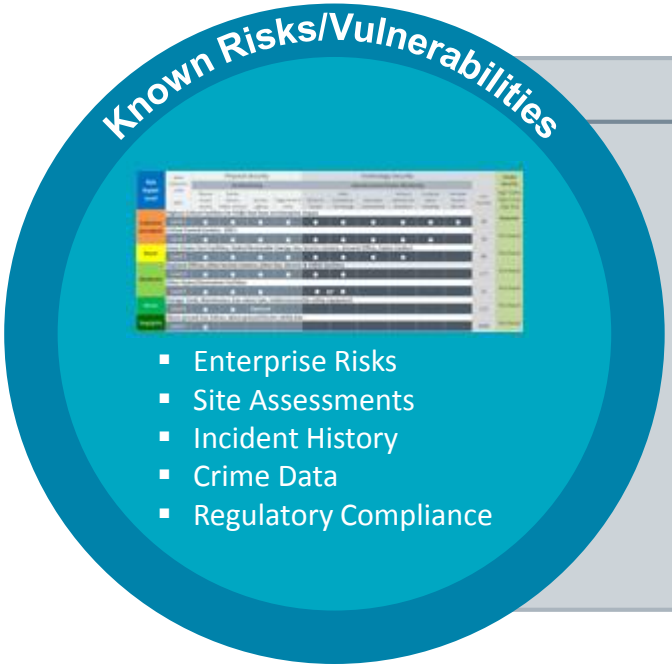
Operationalize Security Defined Protection Levels (SDPL)



Plan/Innovate	Build	Run
▪ Bullet	▪ Bullet	▪ Bullet
▪ Bullet	▪ Bullet	▪ Bullet
▪ Bullet	▪ Bullet	▪ Bullet
▪ Bullet	▪ Bullet	▪ Bullet
▪ Bullet	▪ Bullet	▪ Bullet
▪ Bullet	▪ Bullet	▪ Bullet
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Next Generation Security

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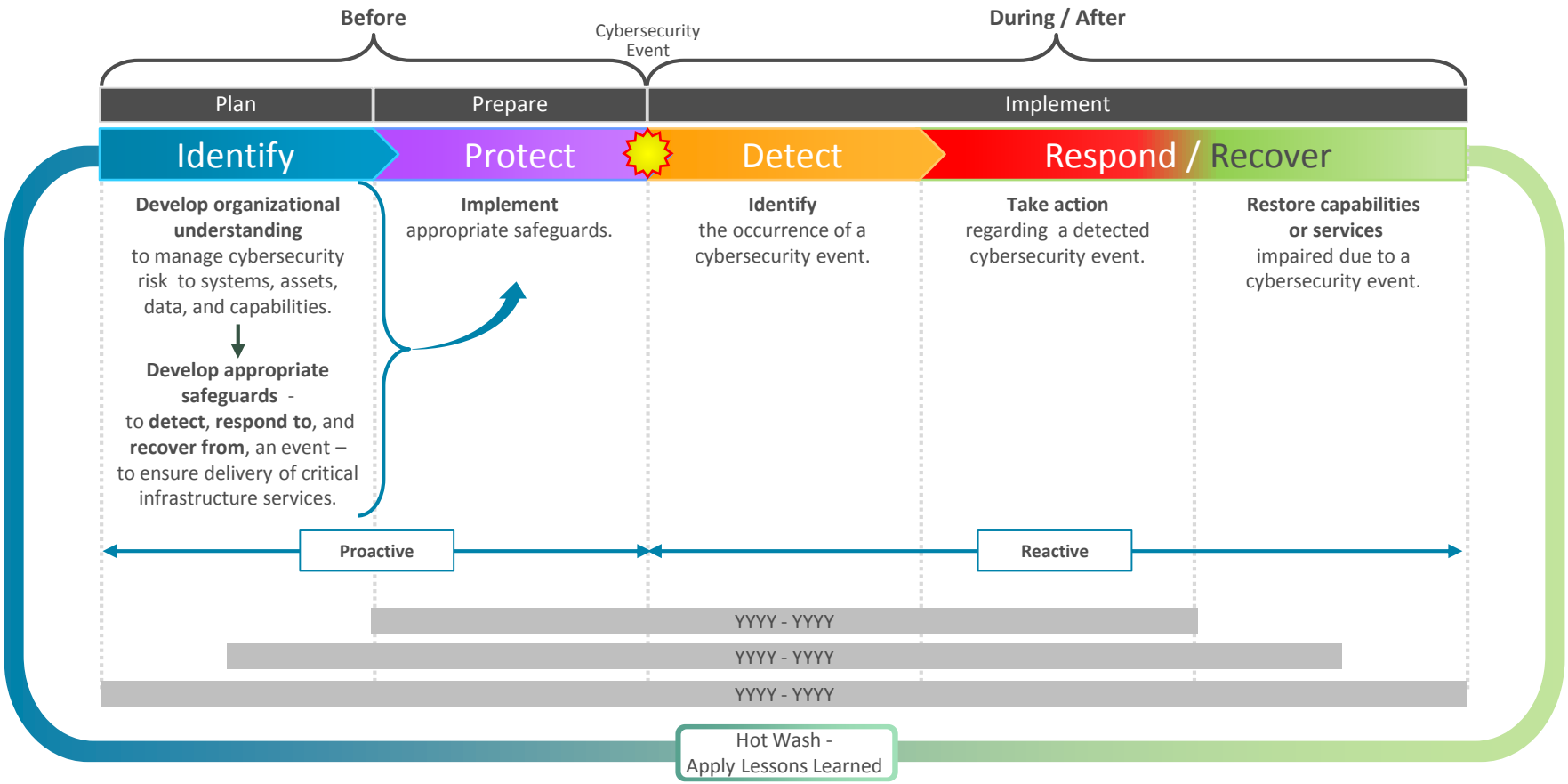
NIST Framework



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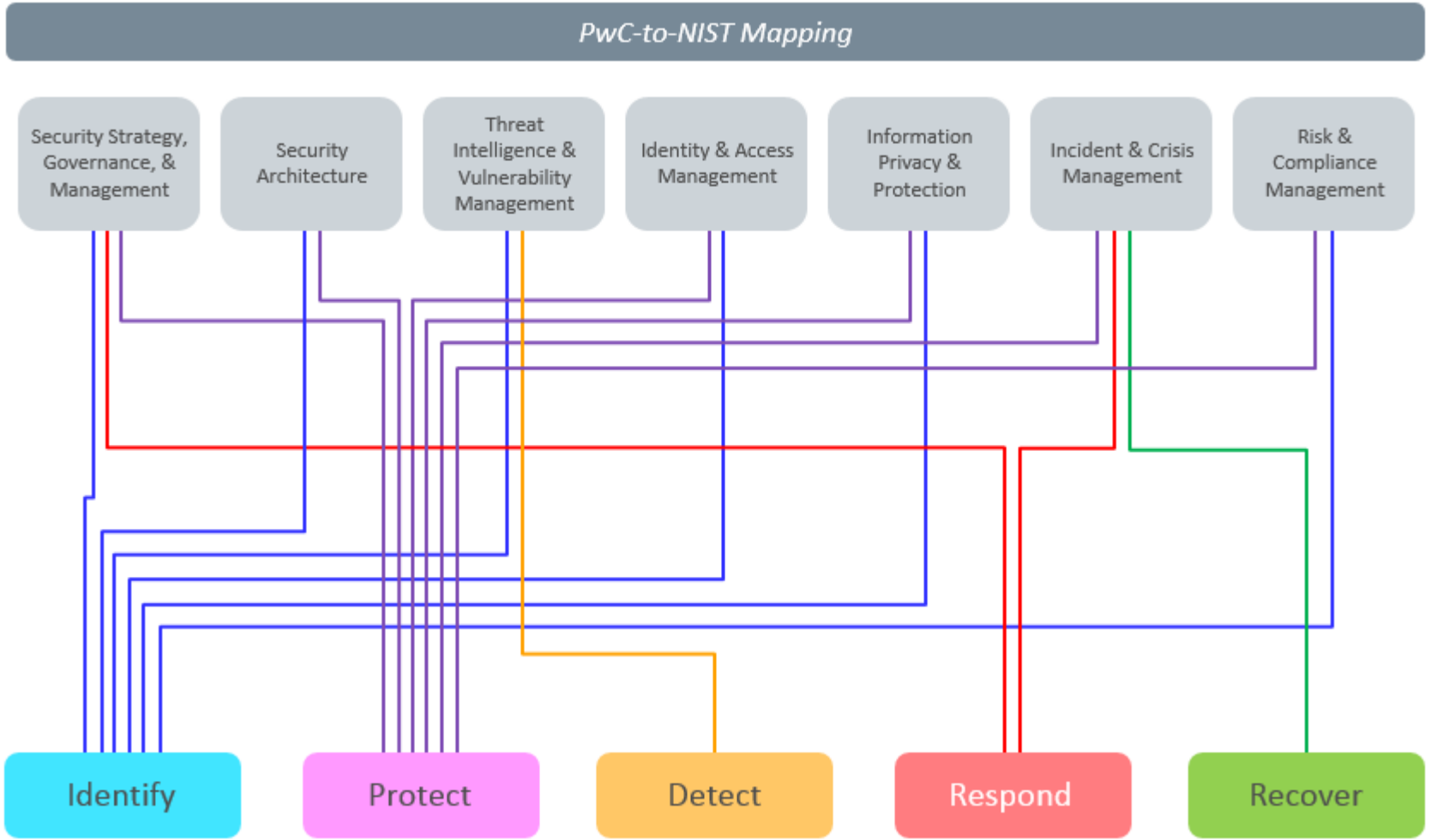
PwC-to-NIST Mapping
Security Strategy, Governance, & Management
Security Architecture
Threat Intelligence & Vulnerability Management
Identity & Access Management
Information Privacy & Protection
Incident & Crisis Management
Risk & Compliance Management
Identify
Protect
Detect
Respond
Recover

[Logo]

LOB Assessments