

**SID 2024**

Sibiu Innovation Days

24-25 October, Sibiu - RO



# Architecting Cybersecurity

Planning and Designing the Cybersecurity Program

# Cybersecurity at Continental

- › Importance of cybersecurity in Continental locations and environments
- › Key goals: regulation compliance, best practices, and quality standards

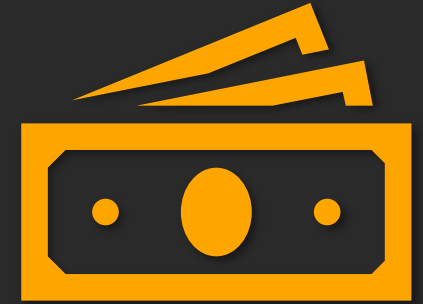
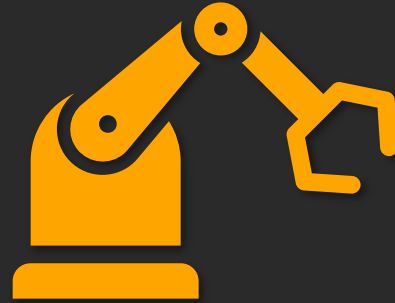


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## Approach and End Goals

- › Integrate cybersecurity from the ground up into all development phases
- › Compliance with industry standards (ISO/SAE 21434, IEC 62443)
- › Enhancing interoperability between Continental entities
- › Ensuring secure locations and production environments

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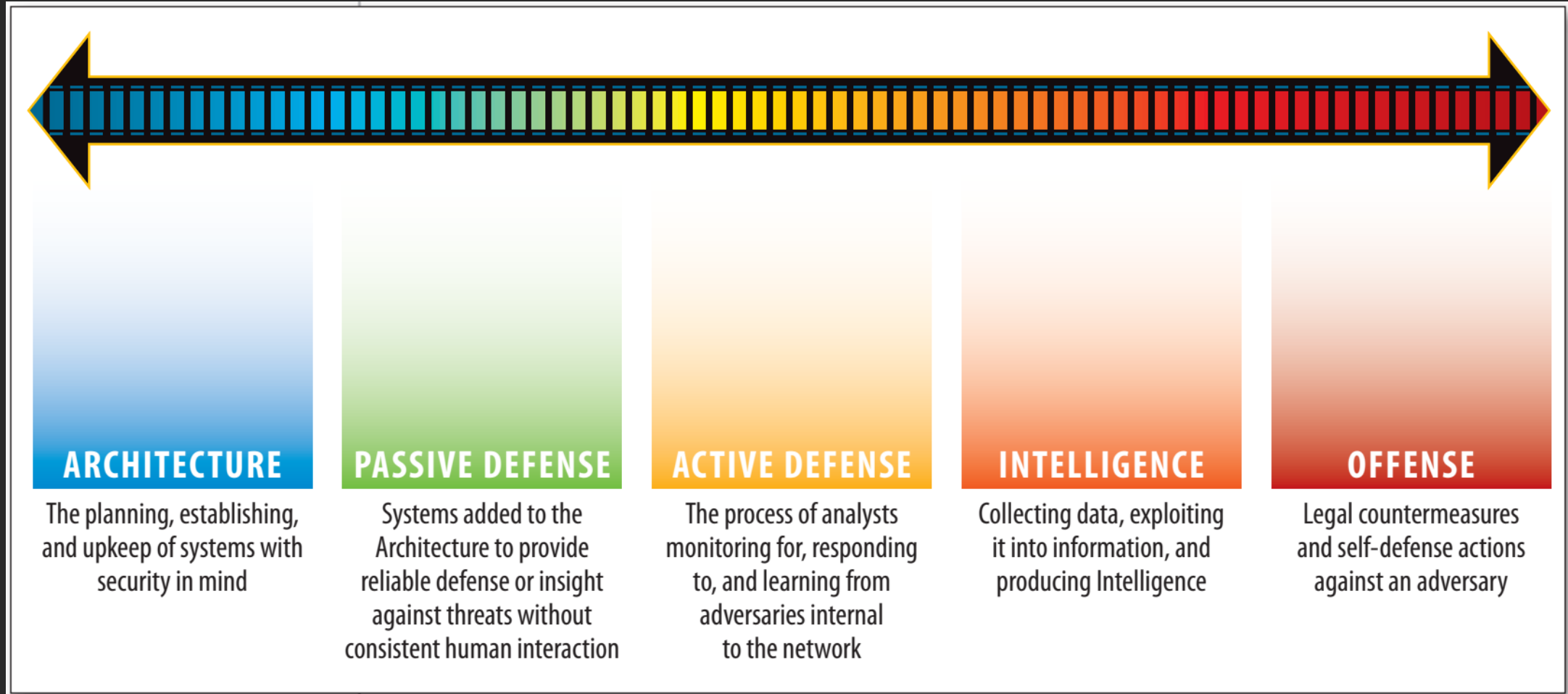


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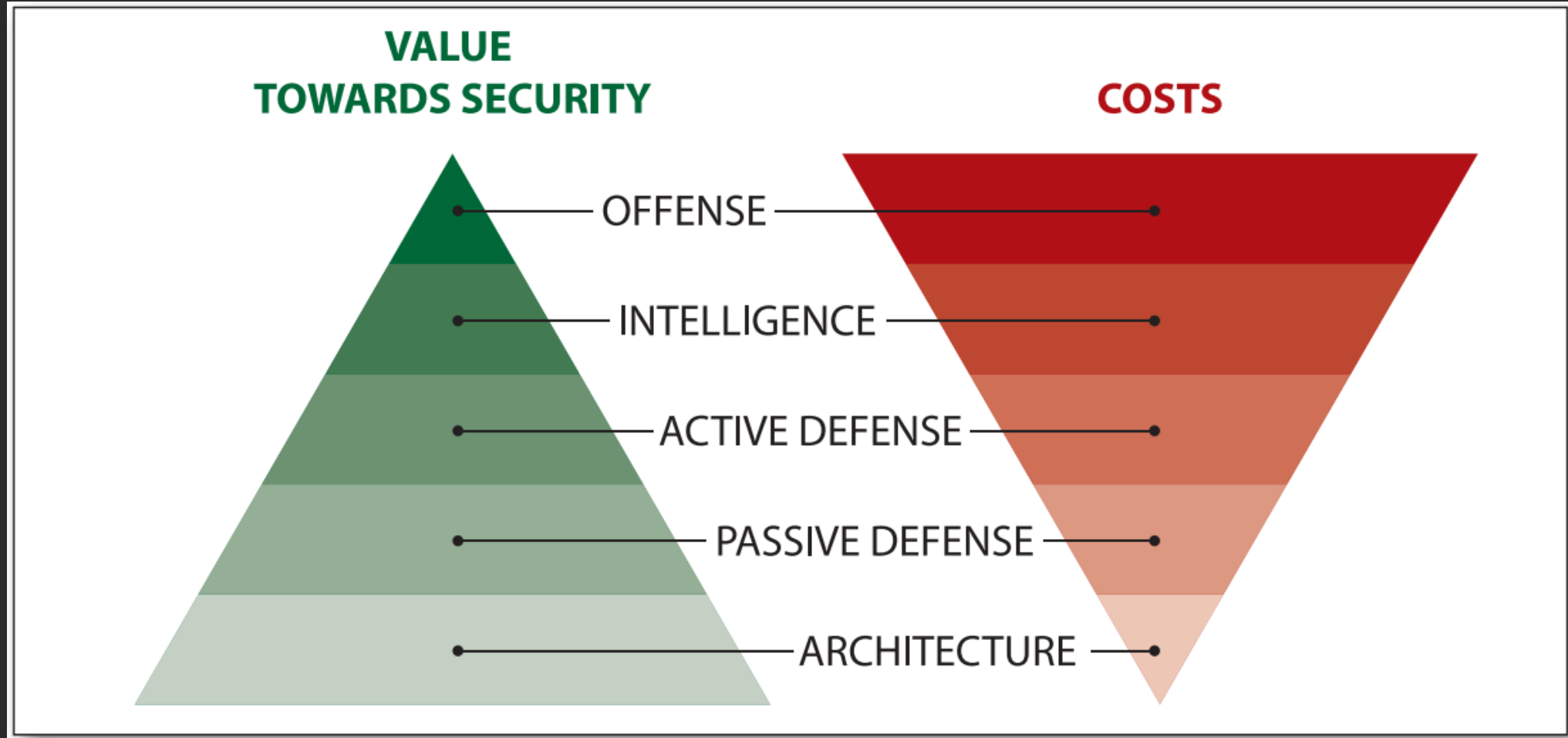
## Cybersecurity Challenges

- › Managing evolving threats in OT environments
- › Effective integration of cybersecurity in the manufacturing processes
- › Security throughout the lifecycle
- › Balancing cost versus security effectiveness

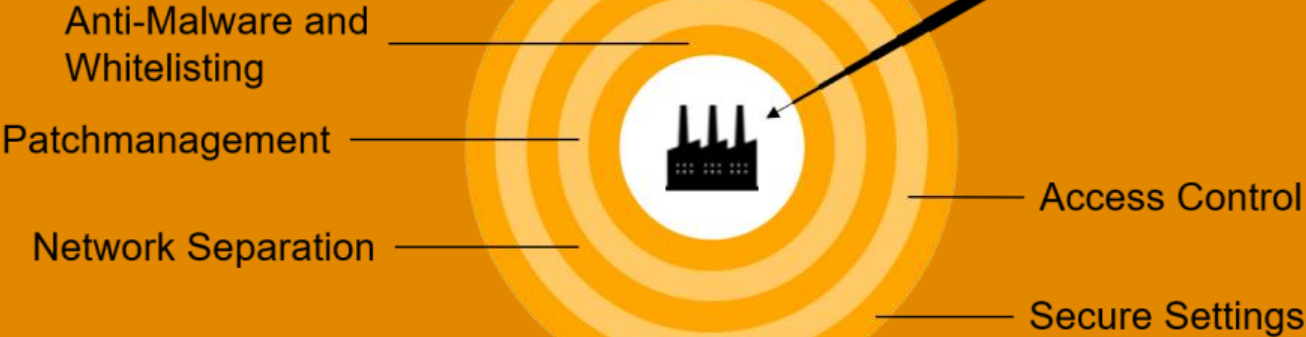
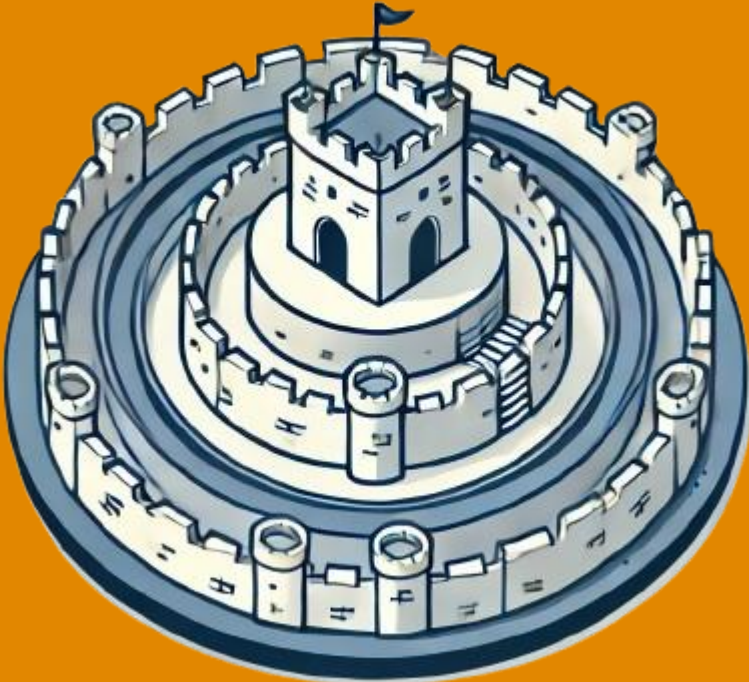
# The Sliding Scale of Cyber Security



# Value Towards Security vs. Cost

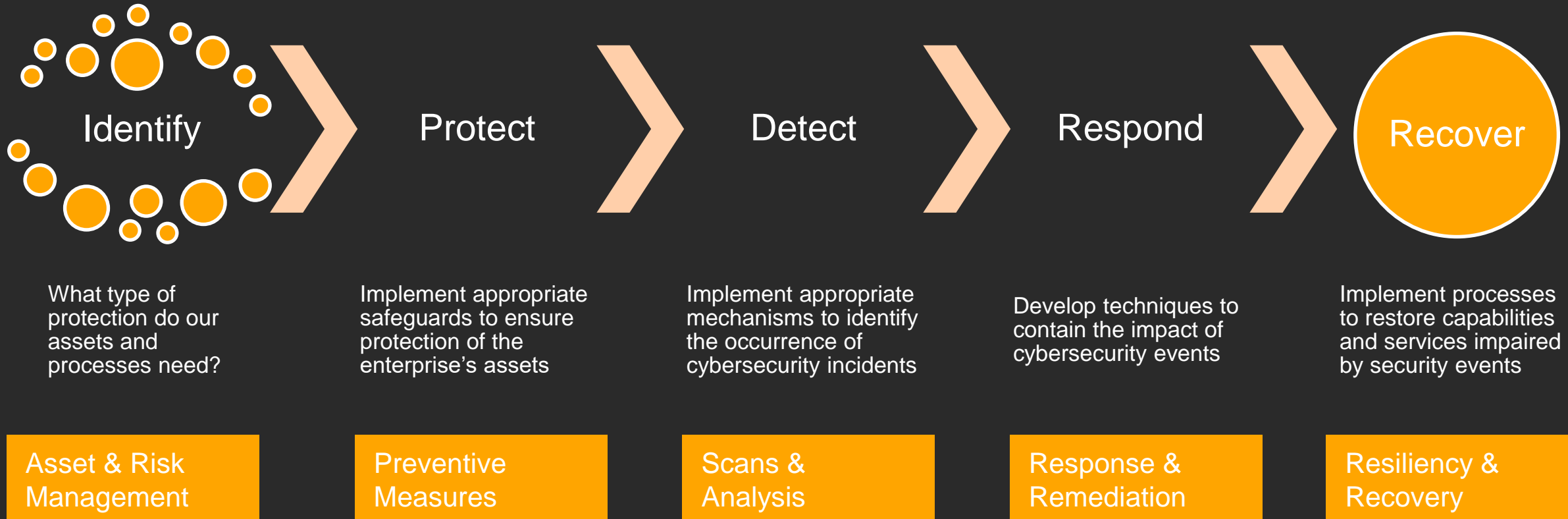


# Defense-in-Depth Architecture



# Roadmap

## NIST Cybersecurity Framework



# Core & Functions

## NIST Cybersecurity Framework

Functions	ID//identify 1	PR//protect 2	DE//detect 3	RS//respond 4	RC//recover 5
Categories	AM// (1.1) asset management	AC// (2.1) identity management and access control	AE// (3.1) anomalies and events	RP// (4.1) response planning	RP// (5.1) recovery planning
	BE// (1.2) business environment	AT// (2.2) awareness and training	CM// (3.2) continuous monitoring	CO// (4.2) communications	IM// (5.2) improvements
	GV// (1.3) governance	DS// (2.3) data security	DP// (3.3) detection processes	AN// (4.3) analysis	CO// (5.3) communications
	RA// (1.4) risk assessment	IP// (2.4) information protection		MI// (4.4) mitigation	
	RM// (1.5) risk management strategy	MA// (2.5) maintenance		IM// (4.5) improvements	
	SC// (1.6) supply chain risk management	PT// (2.6) protective technology			



# Risk Management

Systematic approach to identifying and managing cybersecurity risks



# Thank you!

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For questions or further discussion,  
feel free to reach out.

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