

Public Sector and Private Sector - Common Cyber-security Threats and Solutions

Protecting Big Data

Main Goal for Cybersecurity

What Customers are most Concerned About

- Protecting Data
 - Access: Only allow people access to the minimum amount of data or systems that they need to do their jobs.

Public Sector VS Private Sector Requirements

What do they need

- Public Sector:

- Federal Government Organization
- Military Defense Organizations



- Private Sector

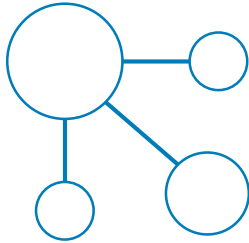
- Commercial Businesses that could fall into Small, Mid-Size, or Enterprise
 - › Ex: Financials, Service Providers, etc.



Tell me who has this Problem

Testing your perspective

Core Network



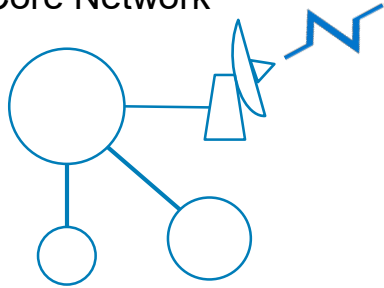
Runs:

- Core Business Operations

Tell me who has this Problem

Testing your perspective

Core Network



Runs:

- Core Business Operations



Remote Network



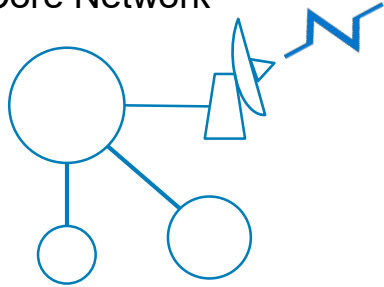
Runs:

- Mobile remote operations

Tell me who has this Problem

Testing your perspective

Core Network



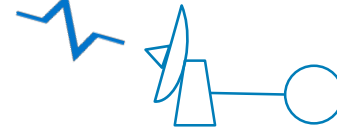
Runs:

- Core Business Operations

Challenges:

- Share data
- Protect against intrusion
- Protect data access
- Possibly poor communications
- Difficult to reach

Remote Network



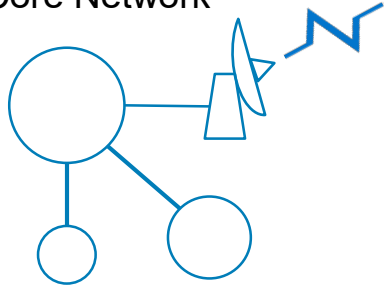
Runs:

- Mobile remote operations

Tell me who has this Problem

Testing your perspective

Core Network



Runs:

- Core Business Operations



Oil Discovery

Remote Network

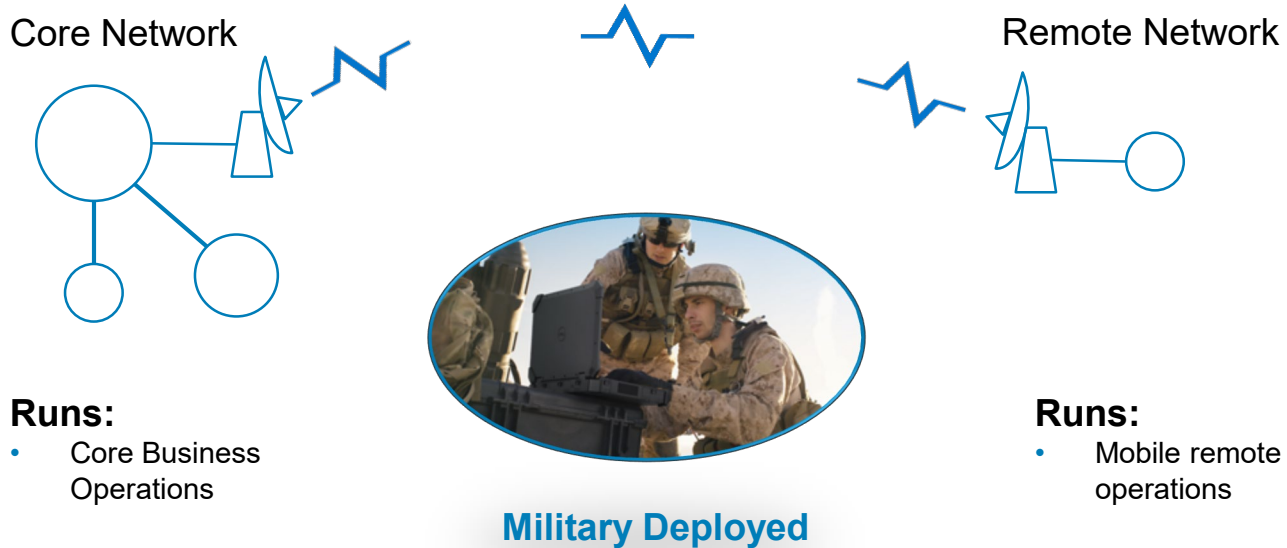


Runs:

- Mobile remote operations

Tell me who has this Problem

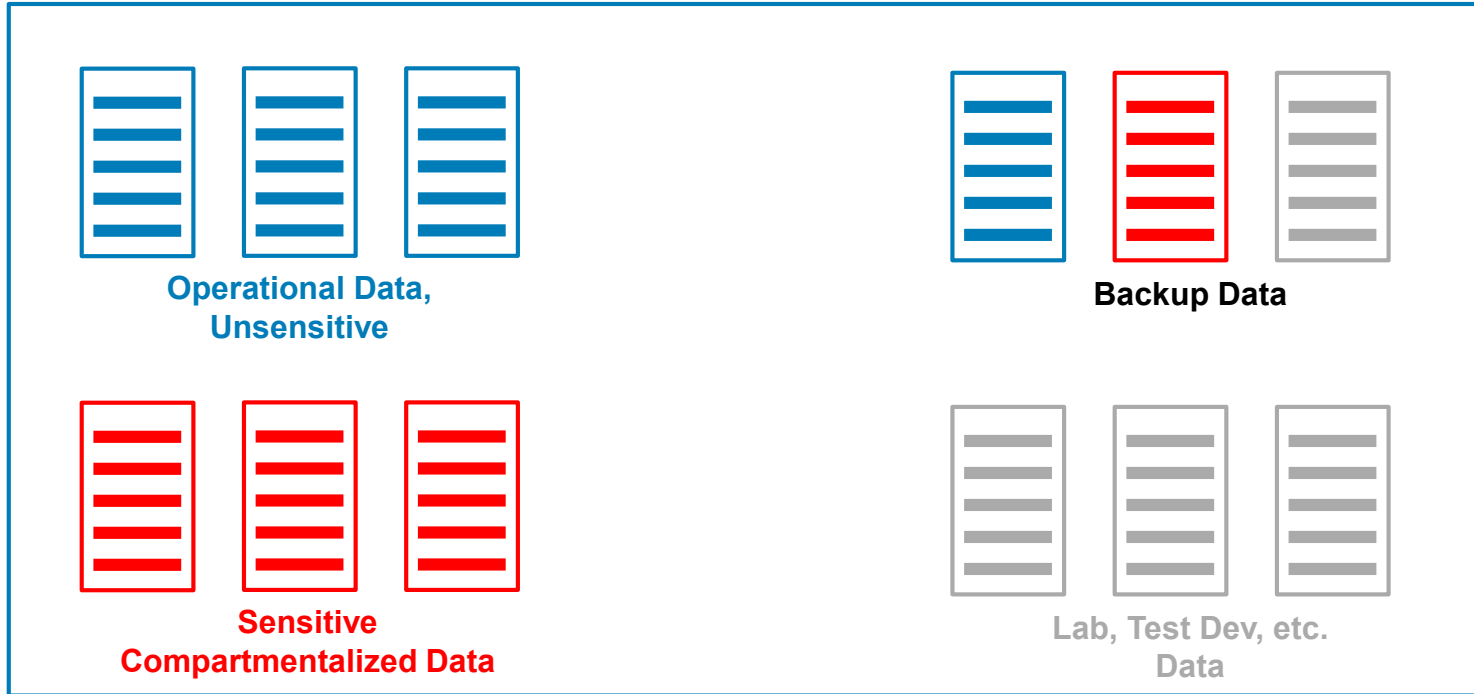
Testing your perspective



Tell me who has this Problem

Testing your perspective

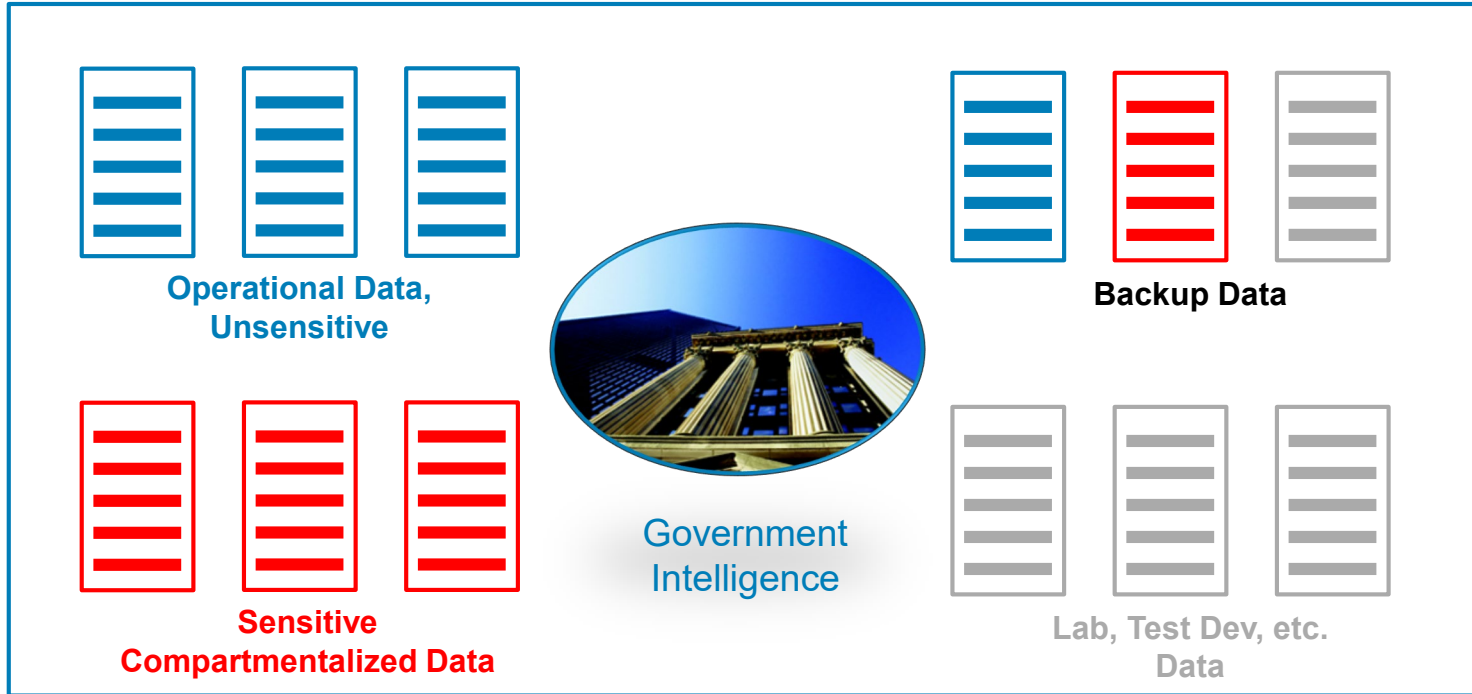
Data Center



Tell me who has this Problem

Testing your perspective

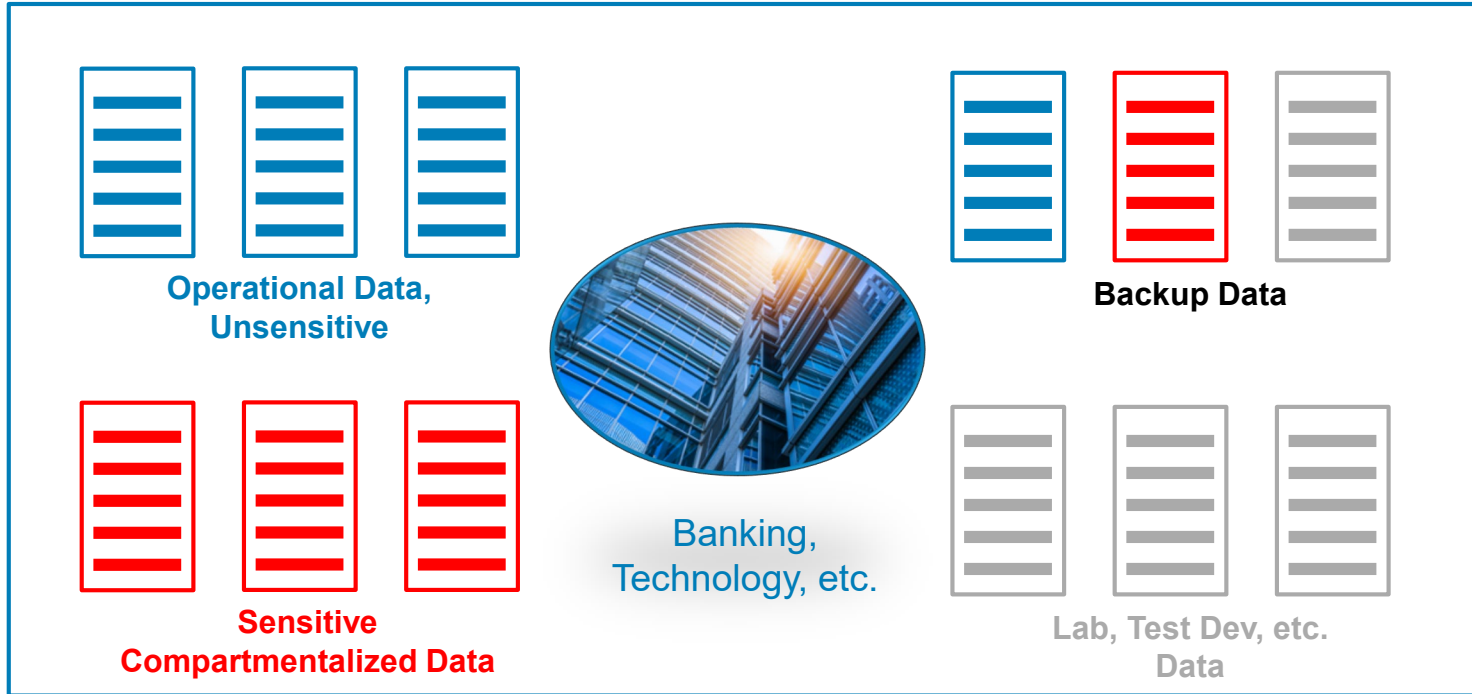
Data Center



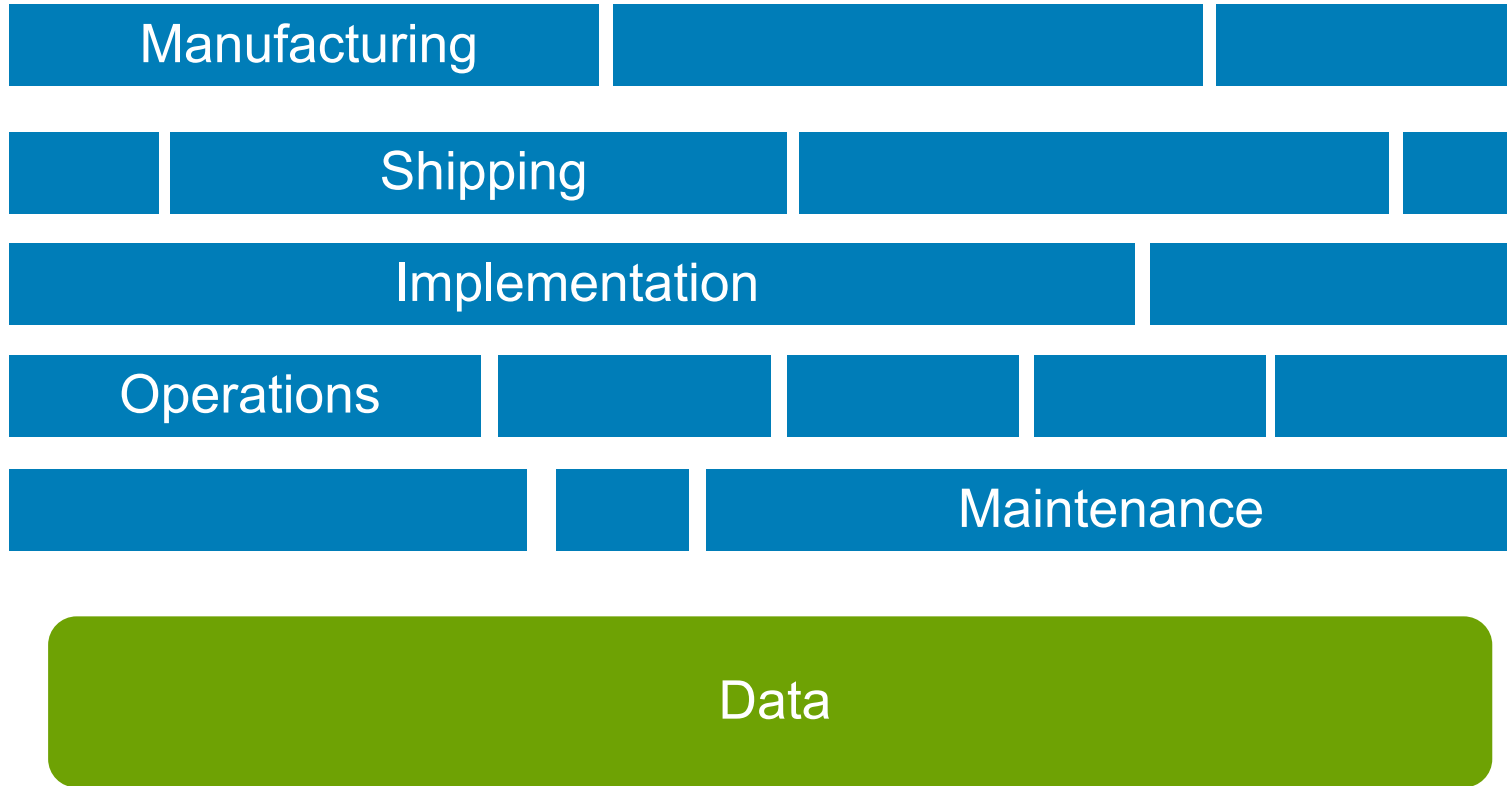
Tell me who has this Problem

Testing your perspective

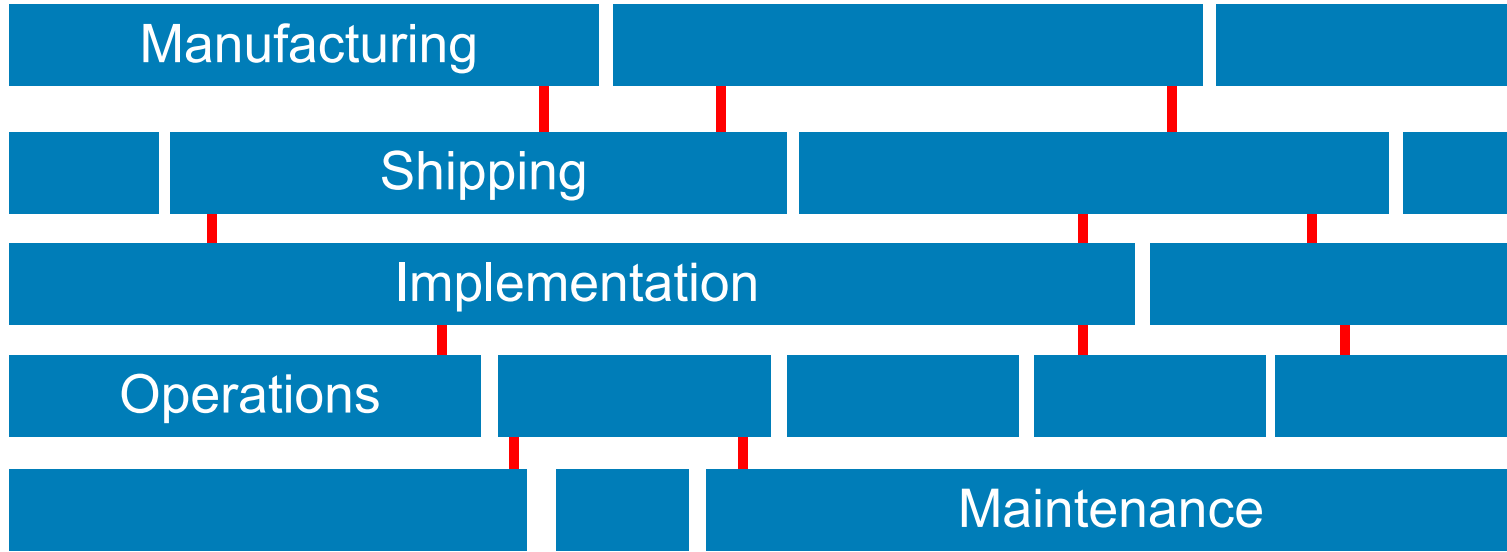
Data Center



Layers of Protection



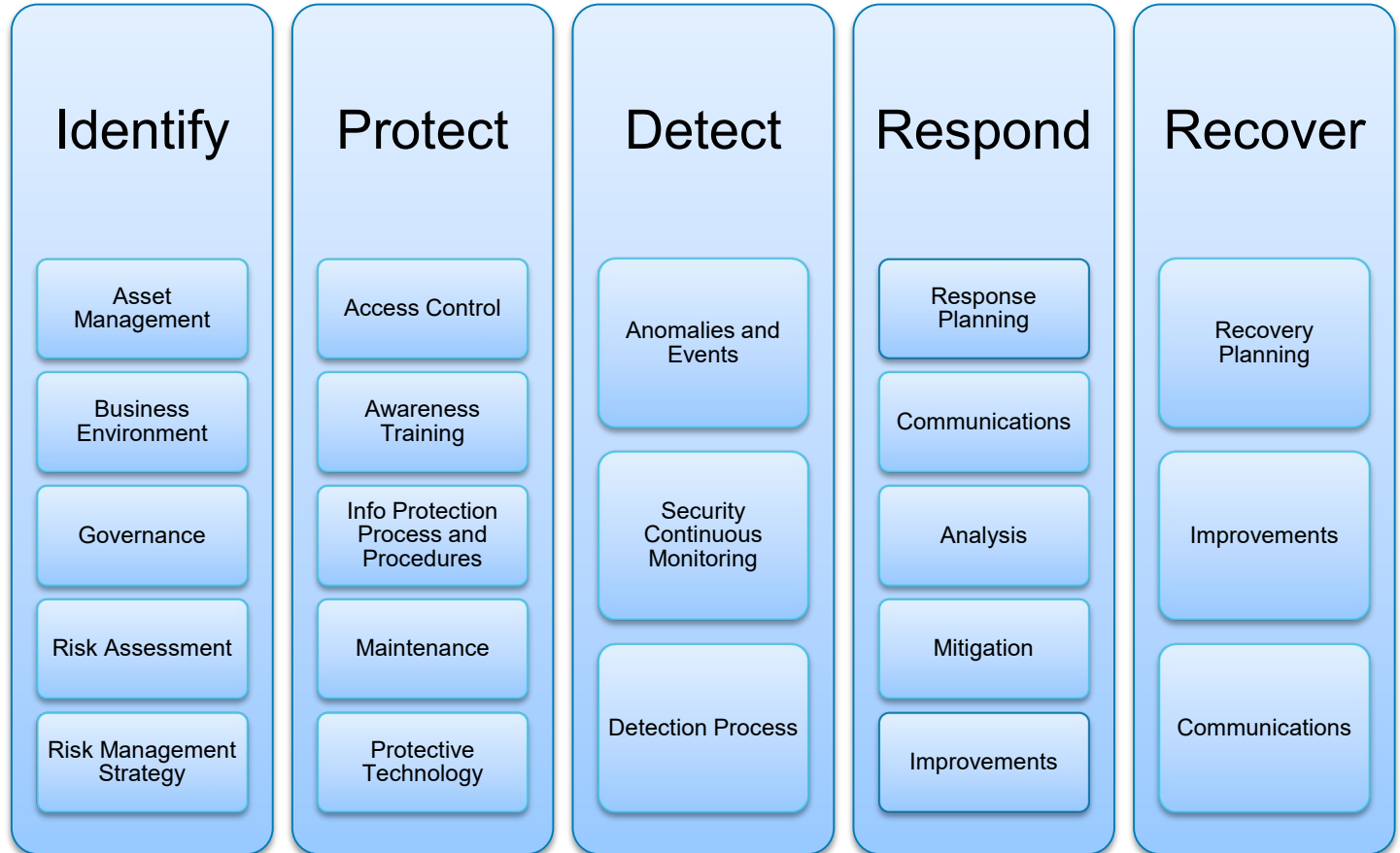
Layers of Protection



 = Processes, People, security controls



NIST Cybersecurity Framework



Global CyberSecurity Regulations Tracking and Unified Requirements

Countries	Departments, Orgs, etc.	Regulations	Standards Organization	Key Publication
USA	All of DoD, Federal Agencies, DISA	DFARS 252.204-7012 DFARS 252.239-7010 DFARS 2011-D039 Army Regulation 525-15 NSPD 54/HSPD 23 and the DoD CIA Strategic Plan HIPPA	NIST and DISA	DISA STIG NIST SP800-53
USA	Commercial Any Regulated Industry or Publicly Traded Company,	Sarbanes Oxley	NIST and Federal Trade Commission	NIST SP800-53
USA	Healthcare	HIPPA	NIST	NIST SP800-53
Canada	The Communications Security Establishment Canada (CSEC), applies to all government and public companies in Canada	Office of the Superintendent of Financial Institutions Act Bank Act Trust and Loan Companies Act Cooperative Credit Associations Act Insurance Companies Act Pension Benefits Standards Act Pooled Registered Pension Plans Act	Communications Security Establishment Canada (CSEC)	Cyber Security Self-Assessment Guidance
EU	All EU Member Country governments	Directive on security of network and information systems (NIS Directive)	European Union Agency for Network and Information Security	EUGDPR
UK	All of United Kingdom	Policy Paper - National Cyber Security Strategy 2016 to 2021	National Security and Intelligence Agency	UK Digital Services Standard



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