

Module 5

Physical Design and Governance of Data Warehouses

Lesson 4: Data Governance



Lesson Objectives

- Discuss motivation underlying data governance
- Define data governance and identify focus areas
- Visualize relationships among core processes in the Microsoft data governance approach
- Explain artifacts for controls, risks, and capabilities



Motivation for Data Governance

- Complex regulatory environment especially for personal identifiable data
- Information security especially theft of confidential data
- Information privacy especially control over usage of personal data

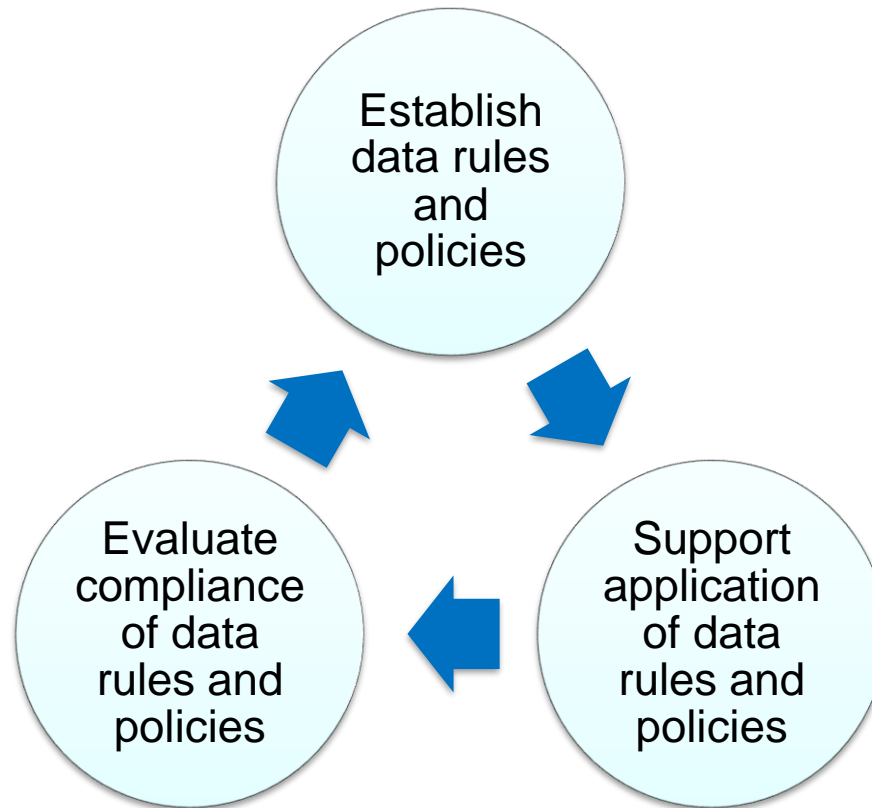


Data Governance Definitions

- DGI definition
 - “Data Governance is the exercise of decision-making and authority for data-related matters.”
- DAMA definition
 - “The exercise of authority and control over the management of data assets. It is the planning, supervision and control over data management and use.”



Checks and Balances



Focus Areas

- Data quality
- Mergers and acquisitions
- Data warehouse and business intelligence development



Components of the Microsoft DGPC Framework

People

- Strategic commitment by executive management
- Guidance by governance organization
- Cooperation from data consumers

Process

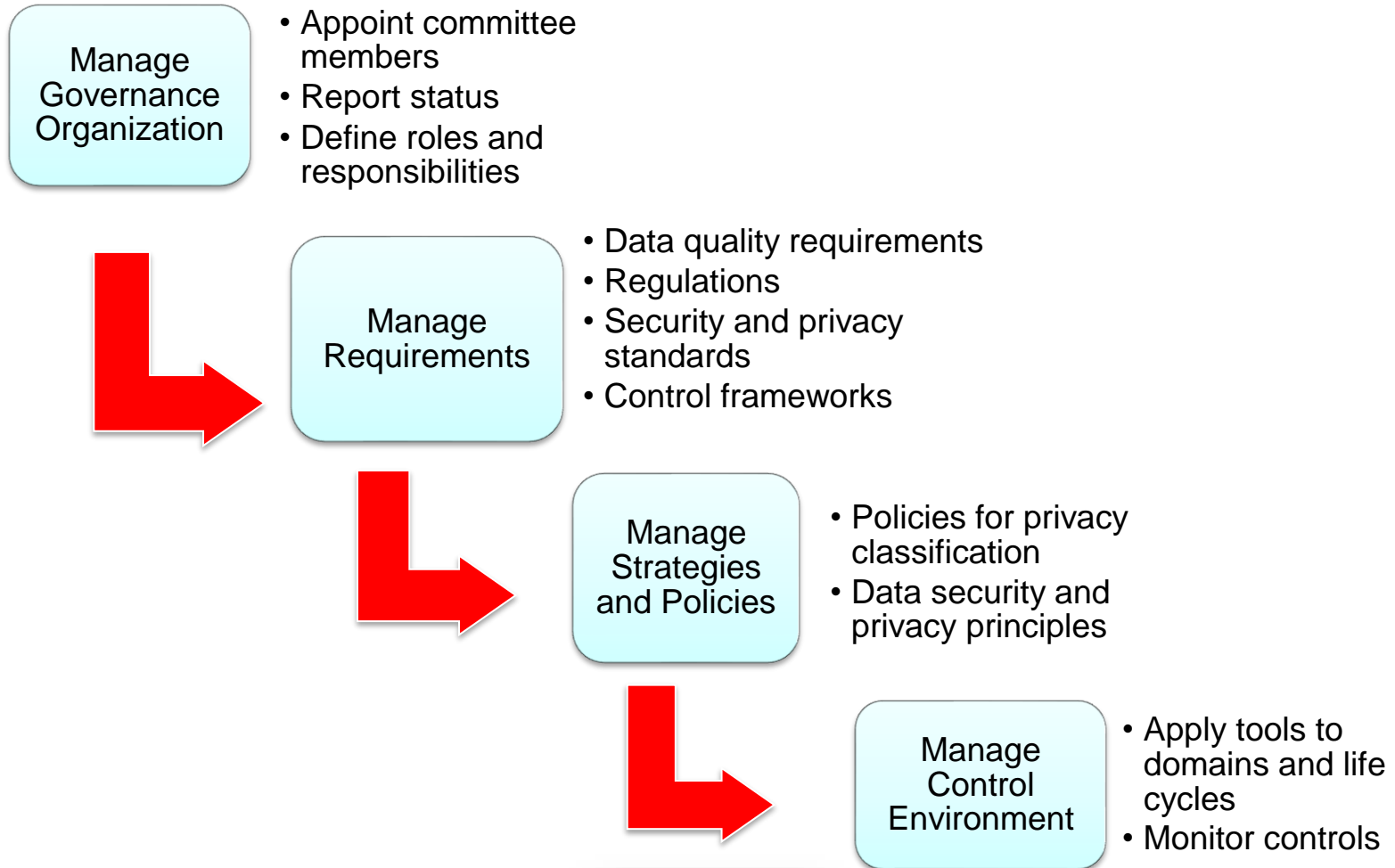
- Establish policies and standards
- Manage governance organization
- Apply tools and technologies
- Implement and monitor controls

Technology

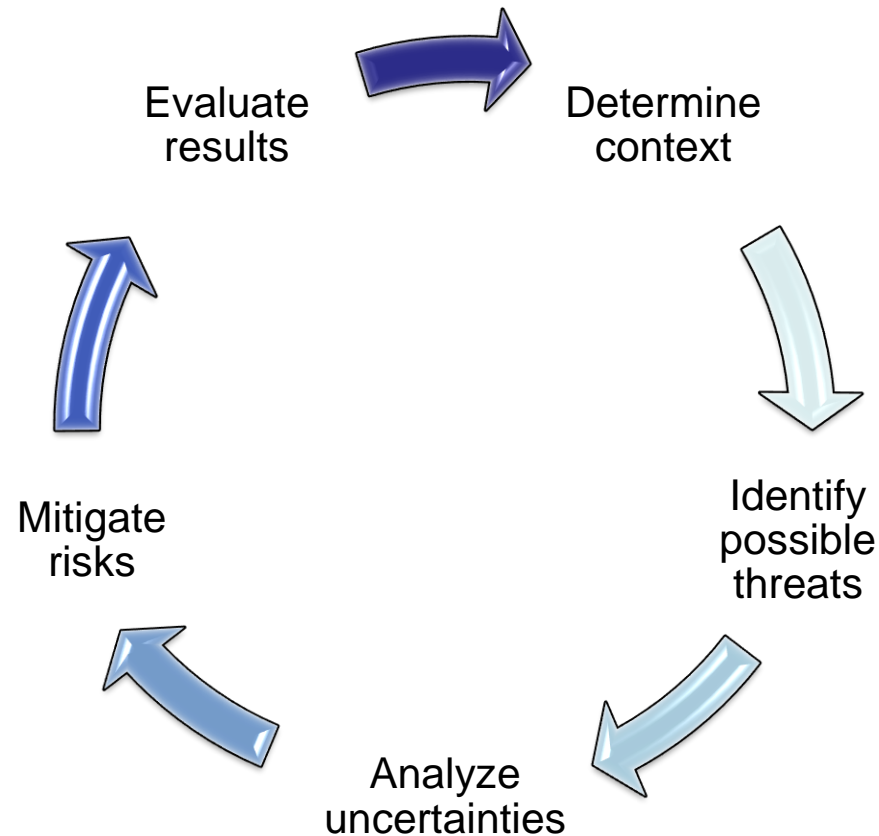
- Trusted infrastructure
- Identity and access controls
- Information protection and classification
- Monitoring of integrity and compliance



DGPC Core Processes



Risk Gap Analysis Process



Risk Gap Analysis Matrix

Lifecycle Stage	Technology Domain				
	Secure Infrastructure	Identity and Access Control	Information Protection	Auditing and Reporting	Manual Controls
Collect					
Update					
Process					
Delete					
Storage					
Transfer					



Capability Maturity Model

Stage	People	Process	Technology
Basic	Lack of training and awareness	Few, immature processes	Lack of tools without integration
Standardized	Formal training	Established and communicated processes	Minimal tools for foundation goals
Rationalized	Formal training with compliance metrics	Process improvement	Increased usage of automated controls and some integration
Dynamic	Formal training with compliance metrics	Integrated compliance efforts	Full usage of automated and technology-aided controls with integration



Summary

- Prominent role for data governance in organizations
- Identify focus and follow procedures for data governance
- Understand Microsoft approach
 - Processes and components
 - Risk tools
 - Capability Maturity Model

