

AIG150 - Week 13

Data Governance Framework

Reading Text: West, T., (2021). Data Analytics: Developing a Data Governance Framework. In *SAGE Skills: Business*

Agenda

- ↪ What is a data governance framework ?
- ↪ Common DG frameworks
- ↪ Different types of DG frameworks
- ↪ Designing a framework
- ↪ Best practices while designing data governance framework

Data Governance Framework

- ↪ A single set of rules and processes for collecting, storing and using data.
- ↪ By having a DG framework, the following becomes easy to manage with the growing volume of data:
 - ↪ Data reliability and validity
 - ↪ Optimization of data collection, storage, processing, and interpretation of data
 - ↪ Data security and privacy
 - ↪ Alignment of information and data points throughout the organization
 - ↪ More dependable information to inform decisions
- ↪ DG framework introduces self-service tools to empower both the technical and non-technical users in accessing data.
- ↪ By using a framework, you can govern, transform and deliver data across all applications and deployments in the cloud and on-premise.

Common DG Frameworks

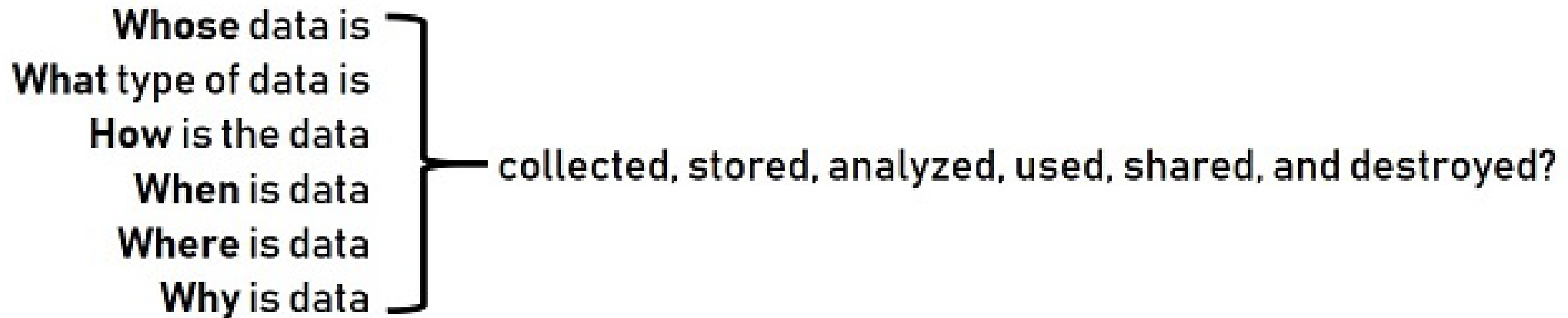
- ↗ [McKinsey](#)
- ↗ [Eckerson](#)
- ↗ [PwC enterprise data governance framework](#)
- ↗ [DAMA DMBOK](#)
- ↗ [The SAS data governance framework](#)
- ↗ [The DGI data governance framework](#)

Source: <https://www.techrepublic.com/article/data-governance-framework/>

Different Types of DG Frameworks

Top Down	Bottom Up
<ul style="list-style-type: none">— Main focus is the high quality of data.— Data modeling and governance are top priorities.— Used by companies with large volume of data and strict regulations to comply with such as banks, insurance companies, healthcare institutions and other large organizations.	<ul style="list-style-type: none">— First large volumes of data are ingested and then structures, schemas and governance rules, policies, and quality controls are added after that.— Main focus is data access, scalability and then data quality— Mainly used by small to medium size organizations where they start with small volumes of data and aim for scalability and flexibility

What to Know Why developing a framework ?



DG Framework

Table 1. Data Governance Framework Example

Management	Oversees organizational data resources and their impact on internal and external operations, performance, and stakeholders.
Accountability	Ensure operational, legal, and financial accuracy and integrity of data for tracking, reporting, and compliance.
Operations	Fortifies and continuously enhances organizational effectiveness and social responsibility related to data through clear, transparent, and trustworthy partnerships, procurement, marketing, and sales strategies.

Data Standards Are Important

- ↪ The development of data standards is an essential practice used to support data integrity and continuity across an organization to ensure that the data are accurate and reliable.
- ↪ ***Standardize:***
 - ↪ The data collection processes to have a cleaner data flow and processes (data validity).
 - ↪ Data storage, processing and naming conventions to have less redundancies (data quality).
 - ↪ Visualization and reporting to have clear interpretation and well-informed decisions.

Designing Framework

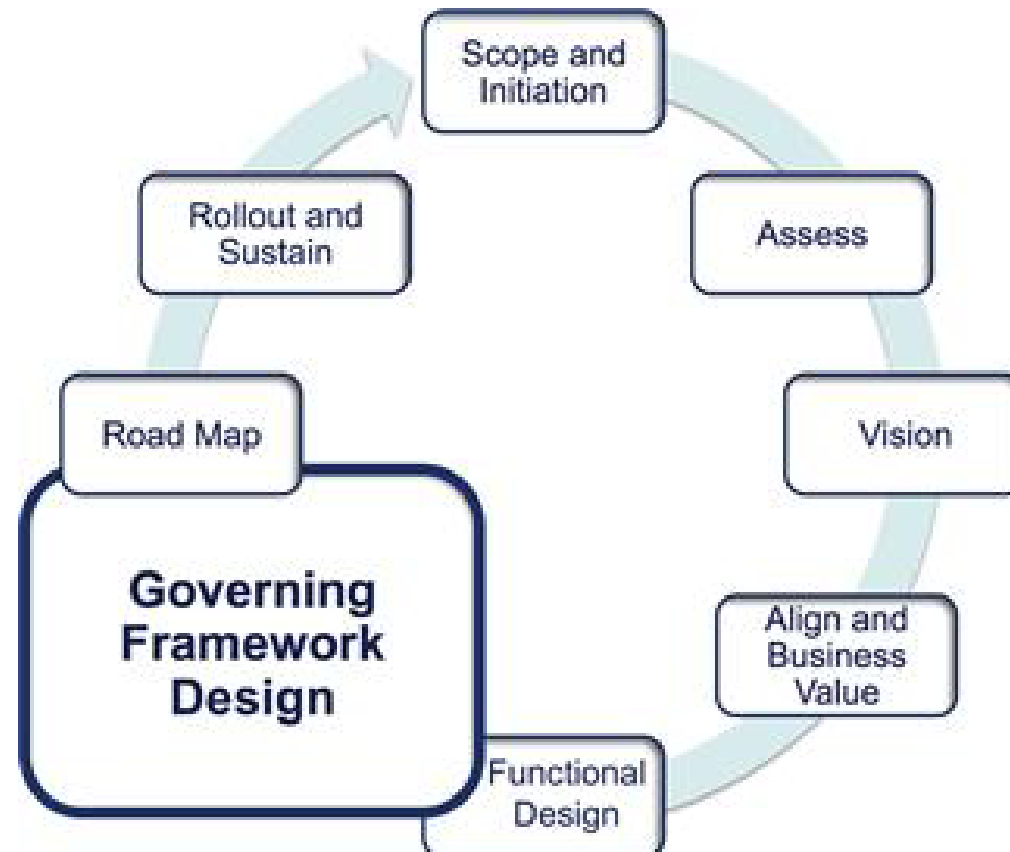


Image taken from "Data Governance how to design, deploy, and sustain an effective data governance program By John Ladley

Governing Framework Design

Design DG Organization Framework

Complete Roles and Responsibility Identification

Review and Obtain Approval of DG Organization Design

Initiate DG Socialization

Image taken from "Data Governance how to design, deploy, and sustain an effective data governance program By John Ladley

SAS Data Governance Framework

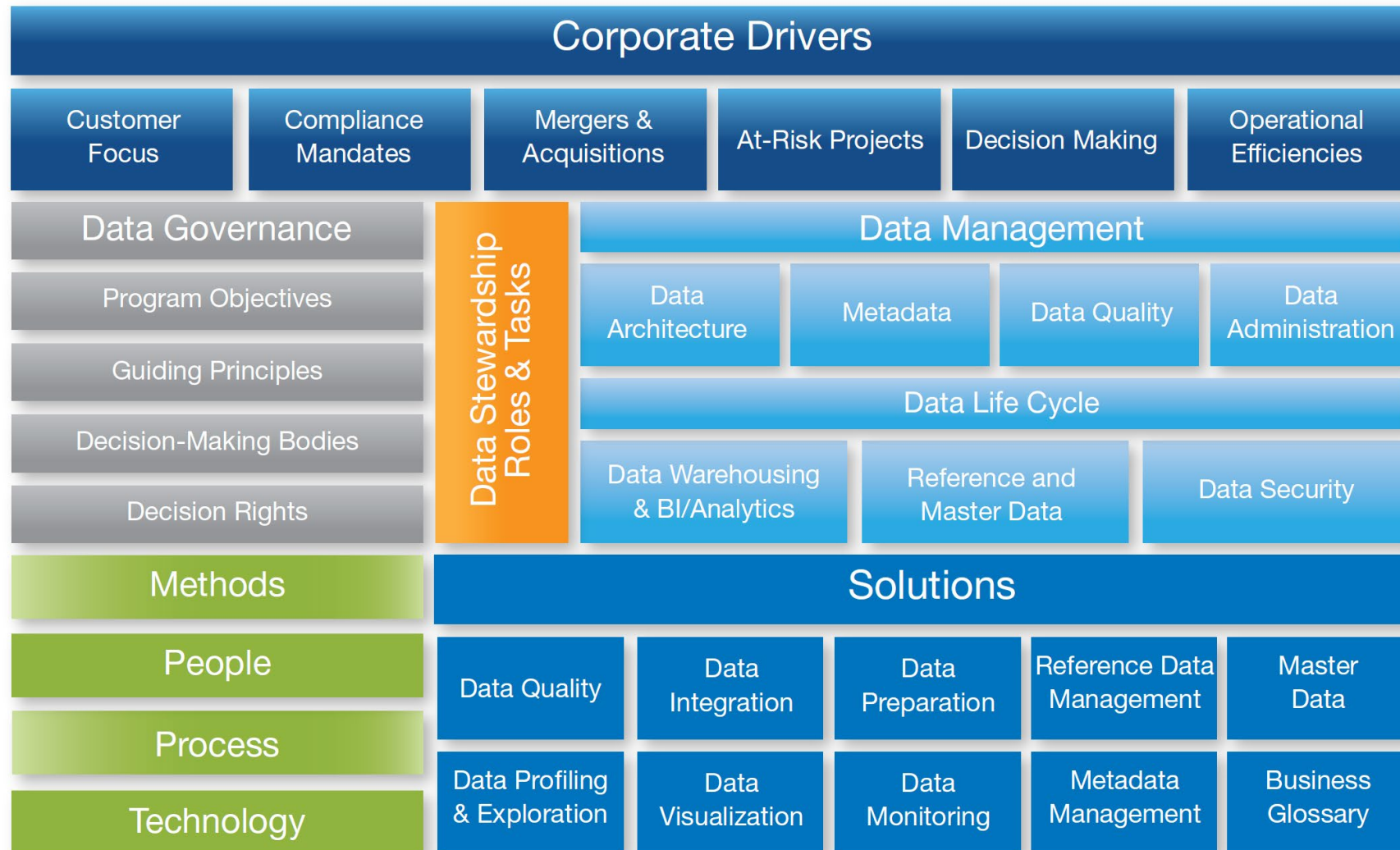
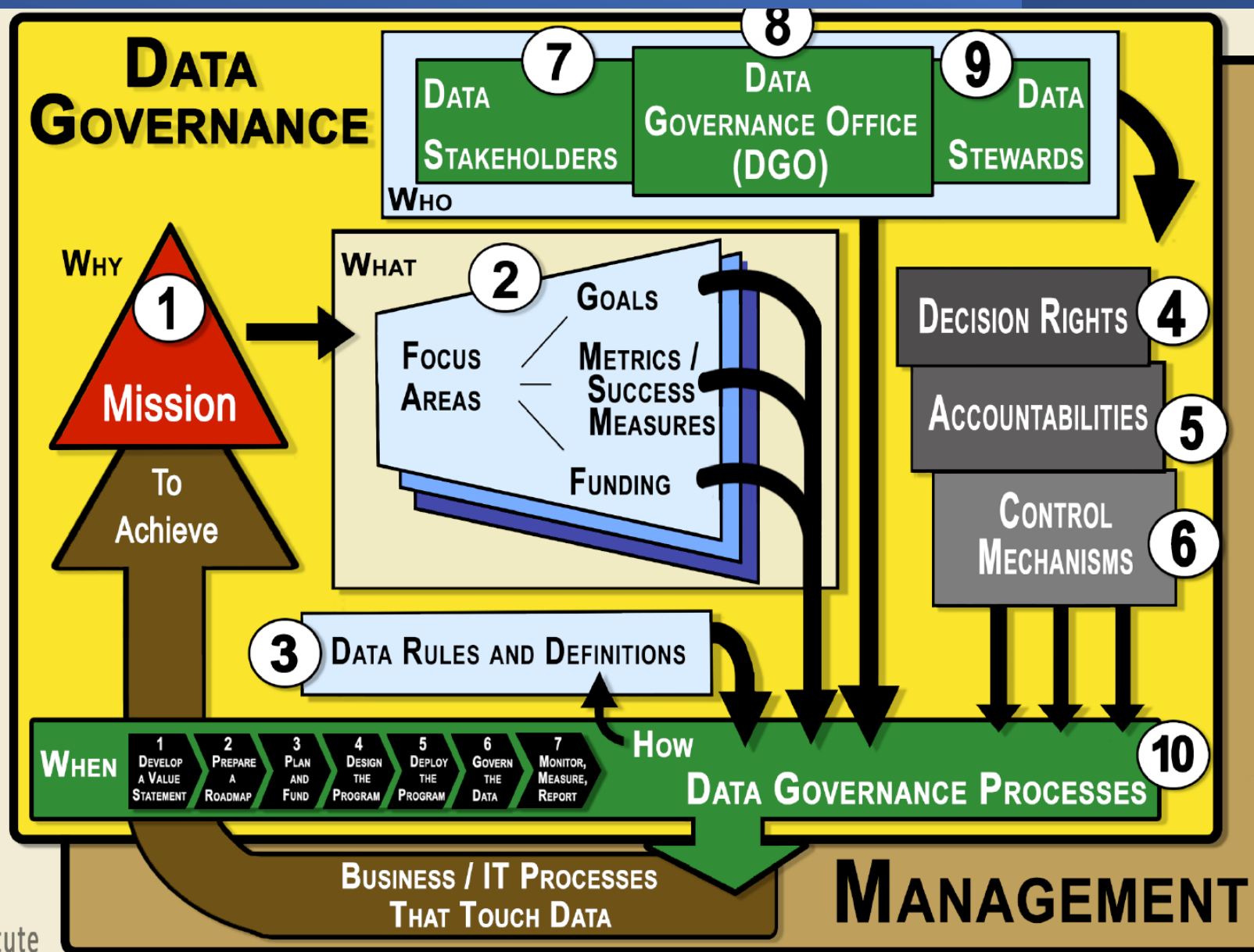


Image taken from [SAS Data Governance](#)

**PEOPLE &
ORGANIZATIONAL
BODIES**

**RULES &
RULES OF
ENGAGEMENT**

PROCESSES



Best Practices For Designing DG Framework

- ↪ Define the purpose of the framework
- ↪ Understand the organization's current state
- ↪ Involve business goals in the governance process
- ↪ Engage stakeholders early and often
- ↪ Keep it simple
- ↪ Plan for flexibility