



## What is data governance and why is it important?

- Many countries are working to strengthen their capacity to use health information to inform policy, strategy, and operational and clinical decision-making.
- Despite the proliferation of data, many health organizations struggle to generate information that provides practical insights. Data governance is a management discipline that gives organizations control over their data and improves their capability to use data to generate quality information that can inform decision-making.
- Data governance prioritizes investments, establishes policy, protects data and information assets, and determines accountabilities and processes for managing data and information.

**Data governance** is a set of practices for making decisions about data and for managing data throughout its lifecycle to optimize the organization's

- Many health organizations recognize the importance of their data and information assets, but struggle to understand:
- Who "owns" the data, and who can make decisions about data
- Where is data stored and who can access it
- How to ensure data quality and interoperability
- How to protect data from threats such as inappropriate access and use, and
- What tools, resources, and skillsets are needed to manage and use data effectively?
- Data governance enables organizations to effectively manage, protect, maintain, and use data to generate information that improves health care quality, health outcomes, and health system performance.

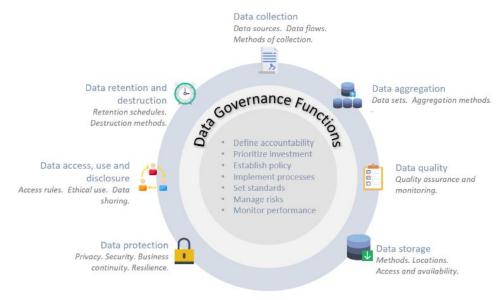
# What organizations should implement data governance?

- Any organization that collects, manages, or uses health data should implement data governance practices. There are often many different organizations involved in the collection, management, and use of health data. It is important that data governance structures and practices are aligned, and ideally integrated, across organizations with health data assets. An integrated and collaborative approach to information governance enables health organizations to effectively manage, maintain, and use data to improve health care quality and performance within and across organizational boundaries.
- In many countries, the Ministry of Health is best positioned to take on the national leadership role in establishing data governance within the health system. However, depending on the national context, other national agencies could also take on a leadership role.
- Whether or not the Ministry of Health takes on a national leadership role for data governance, as an organization that collects and uses health information for decision-making, it should establish its own data governance practices. Where applicable, the Ministry of Health should look to align its data

governance practices with other key national stakeholders, such as the national statistics authority or the national vital statistics authority.

# What should data governance address?

 Data governance functions should include defining accountabilities, prioritizing investment requirements, establishing policies, implementing processes, setting standards, managing risks, and monitoring performance related to data throughout its lifecycle.



## How is data governance implemented?

- Data governance is an organizational capability. Organizations should expect that it will take
  investments of both time and resources to implement and strengthen data governance. Data
  governance is a journey of continuous improvement.
- To plan, implement, and continuously improve data governance, organizations should consider people, processes, and technology. The table below provides a high-level framework for planning and implementing data governance.

# People Processes Technology

# Decision-making Structure

Establish a data governance structure which includes both executive decision-making and technical bodies to define priorities for investment, develop and endorse policies and standards, and to identify and manage risks.

# Data Asset Management

Develop an inventory and classification of data assets, and document data standards (e.g. health data dictionary). Define and document data flows. Define principles and rules for data retention and destruction.

#### **Tools and Technology**

Identify and implement the tools and technologies (software and hardware) required to effectively manage data throughout its lifecycle, and to generate information for decision-making.

#### Roles and Responsibilities

Define operational functions and responsibilities for the management of data throughout its lifecycle. Clarify decision rights. Identify and validate data owners, data stewards, and data consumers.

#### **Enabling Processes and SOPs**

Establish and document processes and standard operating procedures (SOPs) for managing data throughout its lifecycle (e.g. data collection, data quality, storage, access, use, destruction, etc.).

## Quality, Availability and Security

Ensure information systems are designed, implemented and maintained to ensure quality, availability and security of data.

# Communication and Transparency

Educate stakeholders on roles, responsibilities, policies and processes for data management. Ensure that decisions related to data are documented and widely communicated. Monitor and communicate adherence to policies, processes, and standards.

#### Standards and Policy Management

Establish collaborative processes for the ongoing management and oversight of standards (e.g. data dictionaries, taxonomies and business rules) and policies (e.g. data management principles, privacy and security policies, guidelines for secondary use of data, etc.).

#### Performance

Ensure hardware, network infrastructure, software and storage are monitored for performance (e.g., availability, reliability, usability, cost-effectiveness, etc.). Identify remediation strategies for technology performance improvement (e.g. configuration, training, investment).

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