

LEARNING MADE EASY

Hitachi Vantara Special Edition

# Intelligent Data Governance

for  
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A Wiley Brand



Understand the data governance imperative

Establish a data governance framework

Protect and secure crucial data

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Data is your organization's most valuable asset. However, before you can put your data to work for your business and maximize its value, you need to enrich it with metadata that does the following:

- Gives it meaningful context for better management and governance
- Ensures compliance with constantly evolving regulations
- Minimizes the risk of data breaches
- Reduces the cost and complexity of discovery and reporting

### What Is Data Governance?

Data governance helps organizations to better manage the availability, usability, integrity, and security of their enterprise data. With the right technology, data governance can also drive enormous business value and support digital transformation.

At its most basic level, data governance is about bringing data under control and keeping it secure. Successful data governance requires knowing where data is located, how it originated, who has access to it, and what it contains. Effective data governance is a prerequisite to maintaining business compliance, regardless of whether that compliance is self-imposed or required by industry or government mandates.



WARNING

Regulatory compliance generally adds to complexity, requiring the ability to properly search data, know every word or number it contains, and produce the right data point, if requested, for any purpose, quickly and accurately.

Intelligent data governance moves beyond information management to support business processes and encompasses a broad set of data strategies and functions, including these:

- **Data delivery and access:** Any actions related to storing, retrieving, and acting on data
- **Data integrity:** Ensuring the veracity, accuracy, and quality of data
- **Data lineage:** Managing the origin of data, what happens to it, and where it moves
- **Data loss prevention (DLP):** Ensuring that sensitive data isn't sent outside the corporate network and controlling what data can be transferred
- **Data security:** Protecting against unauthorized access to or corruption of data
- **Data synchronization:** Establishing consistency among data types
- **Master data management (MDM):** Administering the complete collection of processes, policies, standards and tools for defining, governing, and managing data

### Architecting a Data Services Platform for Intelligent Data Governance

A modern data services platform delivers features specific to how the data it is managing is utilized, regardless of who or what created it and needs to use it. Organizations

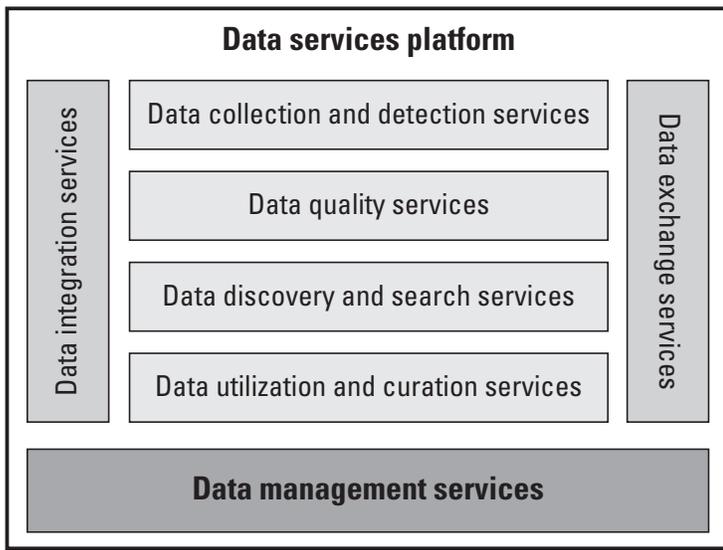
can leverage a modern data services platform to pivot their offerings and behaviors from the perspective of the data they deem most valuable and relevant to the business. Product ecosystems, business processes, and data governance become more valuable when they are associated with a platform because the data itself becomes the commodity rather than the technology.

A modern data services platform must include these services to enable intelligent data governance (see the following figure):

- **Data integration services:** These services allow the organization to access all of its fragmented data regardless of where it resides, who has access to it, or what application created it.
- **Data collection and detection services:** Integrated data streams enable the platform to identify correlated data elements and aggregate them into a centralized index. Aggregation enables the platform to detect characteristics of interest to the business.
- **Data quality services:** These services provide data interrogation that focuses on ensuring the data adheres to how the organization has defined quality. This could require specific tagging, data categorization or classification, cleansing the data to normalize specific data types (such as date formatting, currency conversion, geo-coordinates, and so on), and enriching the data with additional metadata information to further increase its relevance and value to the business.
- **Data discovery and search services:** All organizational data is routed through this service so that an index of all of the organization's data can be created, regardless of whether the data remains in its original location (think of this as application-controlled data) or is aggregated and centralized in the platform. This index is a representation of the source data that can be easily searched to discover the most relevant information based on keywords, natural language, or categorical criteria.
- **Data utilization and curation services:** These services allow the organization to continually assess the usefulness of the data, what the data is and where it is located, what to do with the data once its usefulness expires, who can have access to the data, and who is responsible for the data.
- **Data exchange services:** These are the industry-standard application programming interfaces (APIs) that allow applications to interact with the data from a centralized and scalable location. These are also the entry points that enable developers to integrate other systems

and services into the information fabric that the platform creates. From a data governance perspective, this means that the processes and rules set forth on the data element become inherited and applied in the application or service that is trying to consume and use it.

- **Data management services:** The foundation of the platform architecture is responsible for storing the data and exposing interservice connection points to affect the data it is responsible for. Through this service, data can be controlled, secured, protected, made readily available, retained, and disposed of. In data management services, the real magic of intelligent data governance happens: the definition of the policy that governs the data and the application of the policy to the data element. This is what makes the service so valuable to data governance initiatives and strategies.



The modern data services platform.

## Ten Benefits of Intelligent Data Governance

Adopting a robust governance model enables data accessibility, data confidence and understanding, and data activation. It delivers the following ten benefits:

- **Data consistency ensures completeness and accuracy.** These are the foundations of data that can be trusted. They are the basis for continually improving process models, data categorization/classification, and enterprise definitions that all business decisions will be based on.
- **Proactive data quality checks ensure data alignment.** With intelligent data governance, the common problems that arise from disjointed data points and siloed data repositories can be addressed in an automated fashion, with actionable insights related to adherence of data to defined quality and governance rules.
- **Data alignment is critical for regulatory and compliance responsibilities.** Intelligent data governance standardizes data quality standards. This approach reduces the risks and unplanned costs associated with basing decisions on misleading data and also ensures accurate and timely adherence to regulatory and compliance requirements.

- **Removes confusion over data meaning and clarity.**

Data confusion is a data governance problem whereby the data is incomplete or the processes supporting the data do not do enough to balance the rigors necessary for completeness with the speed at which the business must operate.

- **Analysis and decisions are based on well-defined and accurate data.**

Intelligent data governance guides the structure and flow of data through the information supply chain, especially during analytics processes. Governance ensures that your data capture mechanisms are set up to collect what data you need and establishes alignment between the tactics of the lines of business and the organization's larger strategic goals.

- **Fact-based decisions become real-time events throughout the organization.** Intelligent data governance is key to ensuring data veracity, which in turn builds the confidence needed by the users of that data to achieve the real-time goal for decision-making.

- **Data confidence encourages the sharing of insights.** An organization that has a strong data-centric culture will only be able to encourage the sharing of information and

insights if the data is complete and accurate. Intelligent data governance is much better for business because it requires a sharing of the burden of data and the insights gleaned from it throughout the organization.

- **Intelligent data governance fosters collaboration and establishes accountability.**

Managing and controlling the use and proper maintenance of data based on a standardized set of rules or policies eliminates inefficiencies in the system, boosts collaboration between business units, and fosters a greater degree of accountability regarding who is responsible for data.

- **Data is kept clean and relevant based on its referential value.**

The amount of data stored doesn't matter if it's relevant to the business and devoid of inaccuracies.

An intelligent data governance approach makes everyone stewards of the data, responsible for keeping it in good shape.

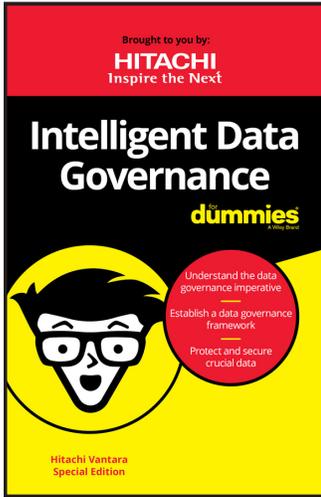
- **Intelligently governed data gives you a competitive advantage.**

Whether data is centralized or dispersed throughout the organization, when it is effectively managed and controlled, the process of gaining valuable insights and unlocking new opportunities is easier to achieve.



TIP

Download the following assets from Hitachi Vantara to help your organization get started with intelligent data governance today:



## [Infographic: Future Proof Your Data Value Through Data Governance](#)