This tool provides a data and analytics governance technology atlas that will help data and analytics leaders to understand, navigate and apply relevant technologies supporting and enabling data and analytics governance.

**When to Use**

The most common data and analytics governance model is based on the command-and-control approach most associated with compliance and regulation initiatives. This is a serious impediment to the ability of organizations aiming to achieve digital business success and business value. Historically, governance has been IT-led and command-and-control oriented. Today, with increasing numbers of data creators and consumers, governance must shift to being about enablement and appropriate levels of more granular governance.

Because governance practices in business functions are localized, fragmented and inconsistent, they limit the value realized and scalability of investment. While command and control limits data and analytics leaders, adaptive governance enables them. Adaptive governance requires new practices as the new organizational capability that determines the governance styles and mechanisms that will deliver required business outcomes in a business context (see Data and Analytics Leaders Must Use Adaptive Governance to Succeed in Digital Business).

Additionally, modern data and analytics use cases need a portfolio of capabilities that are driven by their constantly changing requirements, which will not be fulfilled well enough through point-based tools. Digital transformation is a driver of this convergence. Organizations want to have automated, synchronized, integrated, cost-effective and efficient solutions with a central design — yet a distributed deployment.

Data and analytics leaders leveraging data management and analytics solutions for data and analytics governance should leverage this tool to:
- Explore, test and validate how modern solutions can operationalize and automate data and analytics governance implementation by deploying augmented data management options for future enhancement.

- Optimize technology investment to support data and analytics governance execution by selecting data management critical capabilities, such as capabilities available across data management programs like data quality, master data management, metadata management and data integration.

Readers should be aware this tool does not include all the possible combinations of the applicability of technologies for data and analytics governance, but the most relevant scenarios and capabilities that Gartner sees prevailing in the market.

**Directions for Use**

This strategic PowerPoint tool will help data and analytics leaders synergize capabilities for different data and analytics governance initiatives within an organization.

Directions for Use

The atlas can be “navigated” using the map in Figure 1.

**Figure 1: Data and Analytics Governance Technology Atlas Navigation Map**
The tool is organized in the following major sections:

- Preface — Purpose of the tool
- Data and Analytics Governance pre work checklist
- Top View — Data and Analytics Governance as a Decision Support System
- Activities
  - Identify Data Sources
  - Curate Data
  - Apply Workflow
  - Drive Harmonization
  - Report/Visualize
- Adapting Styles and Technology Profiles
  - Control
  - Outcomes
  - Agility
  - Autonomous
- Technology Capabilities (Essential)

Evidence

The analysis in this document is based on information from several sources, including:

- Conversations about data and analytics governance with users of Gartner’s client inquiry service.
- Interactive briefings during which vendors provided Gartner with updates on their strategies, market positioning, recent key developments and product roadmaps.
Recommended by the Authors

7 Must-Have Foundations for Modern Data and Analytics Governance

Implement Your Data and Analytics Governance Through 5 Pragmatic Steps

The Role of Technology in Data and Analytics Governance Policy Management

Toolkit: Gartner Analytics Atlas

The Future of Data and Analytics: - the Decision, 2025

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