

# The Value of Data Governance for the Data-Driven Enterprise

Prepare for Data Governance 2.0 by bringing business teams into the effort to drive data opportunities while limiting exposures

Contact us at  
[info@dataaffect.com](mailto:info@dataaffect.com)

+1 703.999.2269  
[www.dataaffect.com](http://www.dataaffect.com)

# Data Governance: Why It Matters

Most companies have at least attempted to put data governance in place at some level—perhaps enterprise-wide—but more likely tied to a particular business function or specific project. However structured, the goals of governance revolve around helping the business wring maximum value out of its data, whether it lives on premise or in the cloud, while cost-effectively minimizing the risks of using those assets in systems and processes.

Data governance should be on an upward trajectory. As Big Data-driven analytics present the opportunity for businesses to become more agile, quickly adapting their solutions and services to potential future outcomes, the need for understanding and trusting that data intensifies. If there's no agreement about what data means within business context—and no confidence in standards and policy control for it—there will be no faith

that the right data of the right quality can be leveraged for business results or that information security and compliance requirements will be met.

Businesses have not been able to get as much mileage out of their data governance efforts as hoped, chiefly because of how it's been handled. IT has held the reigns, serving as data custodian by cataloging data elements to support search and discovery without any real grasp of data meaning, relationships or value to the organization. Efforts aren't always undertaken as part of a holistic, enterprise-wide venture either, so there's little chance of effective data element re-use across the business.

Without the business teams that own and know the data invested in the data governance process, rules can be misapplied and even too stringently deployed—thereby increasing risk and

the costs of managing it. At the same time, hopes of using the same data assets across the enterprise to drive key decisions can be thwarted by lack of collaboration among business users—a vital component for building assurance in data reliability and sustaining a living data governance ecosystem.

Data governance done right—with the participation of the business—holds great promise. Fortunately, Data Governance 2.0 builds on the principle that everyone in the organization has a role in the process. Empowered to act as data citizens intimately involved in defining terms and the rules and policies that govern them, stakeholders will collectively justify, execute and sustain data governance initiatives that deliver both a return on investment and a return on opportunity.

## DATA GOVERNANCE DEFINED

**Governance is fundamentally about decisions regarding data. This includes deciding what the data means, where it should be used, how accurate it needs to be, and what rules it needs to follow.**

Source: [The Data Administration Newsletter \(TDAN\)](#)

## DATA GOVERNANCE'S PLACE IN THE DATA MANAGEMENT UNIVERSE

**Data governance is the cornerstone of an integrated and holistic approach to data management that helps organizations:**

- Provide every stakeholder in the process the means of defining terms and the rules and policies that govern them
- Gain a platform for understanding, governing and socializing trusted data assets for greater visibility, control and value across the enterprise
- Get the greatest benefit from any kind of data, anywhere it lives, while minimizing the risks of using those assets
- Plan and analyze the impact of changes made to a specific data element across the enterprise.

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# Data Governance: How to Do It

**erwin Data Governance (DG)** delivers on the Data Governance 2.0 imperative, providing a platform for discovering, understanding, governing and socializing data assets—regardless of format or location—for greater visibility, control and value across the enterprise. In a world where data increasingly *is* the business, it serves as the foundation enabling companies to use data to grow revenue while also limiting the risk of data exposures.

## erwin Drives Data Governance 2.0 Principles:

- Data governance is everyone's business.
- Business stakeholders are responsible for aligning data governance and strategic enterprise goals.
- IT handles the technical mechanics of data management.

## erwin DG's capabilities include:

→ **Any<sup>2</sup> (Any Data, Anywhere) support enables organizations to incorporate all their data assets into their governance plans.**

As with all erwin solutions, **erwin DG** supports Any<sup>2</sup> as a key foundational philosophy. Relational, unstructured, on-premise and cloud-based data assets are coupled with well-documented business rules to ensure standards are followed. The result is enterprises bringing together data of any format from anywhere—whether a database or a streaming XML file—to securely and effectively make decisions. They're not relegated to relying on a small subset of data in traditional managed stores.

→ **Collaboration and organizational empowerment occurs because of users' consistent, role-based views of data.**

By publishing data to consumers according to their roles and providing them role-aware interfaces to these assets, different business functions can leverage data in ways that are meaningful to them, while also abiding by the appropriate rules, authorizations and processes related to their functions. Data socialization in this fashion means that users won't need to tread through a technical interface to find out what data is available for use, its contextual meaning, the rules and restrictions applying to it, and the mechanics of access. IT can link well-defined workflows across roles to weave a true collaborative culture of data governance into the fabric of the enterprise.

→ **An integrated ecosystem and visibility across domains greatly improves the enterprise's facility with data across the Data Governance 2.0 lifecycle.**

**erwin DG** connects the meaning of terms as dictated by the business via a collaborative authoring process to the catalog of data elements and physical data asset mappings as maintained by IT. The systems that manage and protect data are unified by a common metadata repository for consistent exchange, understanding and processing.

Data agreement and confidence result from the data's true owners determining reusable business glossaries and standardizing code sets related to the terms. IT's data dictionary reconciliation work with the business glossary for a common data vocabulary shared across enterprise divisions supports data impact analysis and creates the foundations of effective master data management.

→ **Regulatory peace of mind is achieved with assurance of compliance with government regulations and cybersecurity measures, which also serves to protect customer trust and prevent reputational damage.**

Data governance demands knowing not only where personally identifiable information or other sensitive data is stored, but who or what has access to it and putting appropriate security and compliance measures in place. **erwin DG** surpasses other data governance solutions that only link a business term to data as it resides in a database or file, instead mapping data elements to the systems and applications that manipulate and serve up that data.

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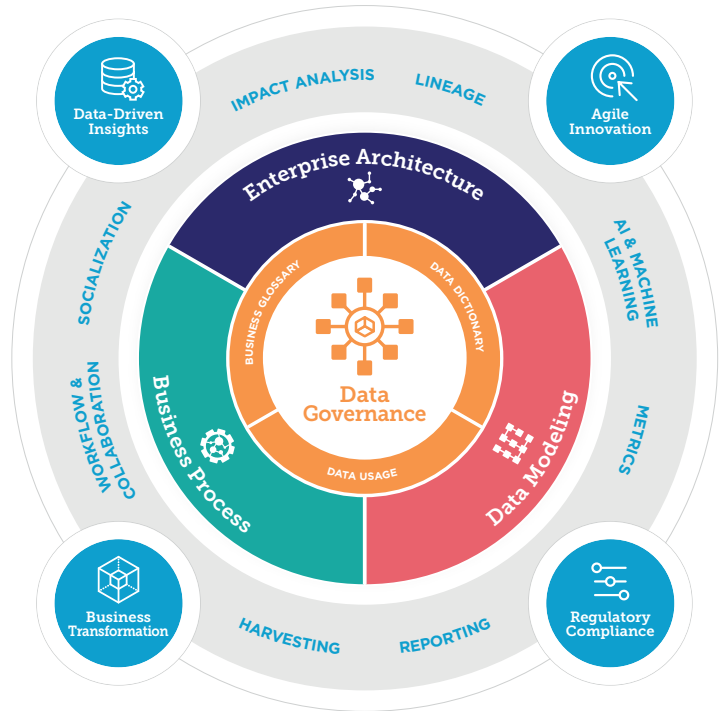


→ **Seamless integration with erwin Business Process (BP), erwin Enterprise Architecture (EA) and erwin Data Modeler (DM) positions the enterprise to cover all aspects of the data governance lifecycle.**

**erwin BP** reveals all the workflows, business capabilities and applications that use a data element. **erwin EA** shows where the element resides within the infrastructure. **erwin DM** enables the visualization of business and technical database structures through an integrated, graphical model rich in metadata; database schemas, procedures, and other information are stored in the model along with business definitions and data-centric business rules. **erwin DM NoSQL** extends automated data model creation to the MongoDB NoSQL environment. **erwin Data Modeler Workgroup Edition** adds the ability to store models in a central repository for re-use across the organization. **erwin Collector** automatically harvests and aggregates operational data from a variety of enterprise systems, including ServiceNow and RSA Archer, into the data dictionary. By automating complex data aggregation, erwin Collector ensures that **erwin DG** is robust, relevant and up-to-date.

## PLATFORM FOUNDATION

Effective data governance requires a business- and technology-enabling platform that covers the entire lifecycle of the initiative. Critical to such a platform are enterprise architecture, business process and data modeling.



The erwin EDGE is an approach and technology platform for Data Governance 2.0.

Integration of these capabilities with **erwin DG** helps build the infrastructure to enable the workforce and processes that support actively governing data assets and their alignment to the business. It promotes a business- and technology-enabling platform that covers the entire data governance lifecycle across all data producer/consumer roles.

This persona-based approach, with everyone—from executives on down—invested in and accountable for data use, creates an **enterprise data governance experience (EDGE)** as opposed to an isolated program managed by IT alone. As embodied in the **erwin EDGE** portfolio of products, IT and business functions are joined to ensure organizational objectives around managing risks and maximizing opportunities are met.

# Data Governance: The Heart of Data Impact Analysis

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**erwin DG's** capabilities for data visibility and control across both business and IT stakeholders, in combination with **erwin BP, EA** and **DM** solutions, set the stage for **data impact analysis**. In fact, data governance goes beyond understanding what data assets exist in the enterprise and applying rules to them. It also encompasses planning and analyzing the impact of changes made to a specific data element across the enterprise.

By providing out-of-the-box integration with **erwin BP, EA** and **DM, erwin DG** brings to life a full scope-and-scale picture of all places where specific data resides and is used, streamlining the process of determining how changes to that data will impact people, processes and systems before they are implemented. The organization will be able to assess the potential risks, advantages and costs of a change as well as be empowered to appropriately plan for a change that is determined to be worth making. It's the agile way to get things right the first time.

## Take Data Governance to the Next Level

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Describing, formulating, regulating and socializing data assets are the technology linchpins of moving to Data Governance 2.0—which itself anchors the vision of becoming a truly transformed, data-driven enterprise. Appropriately implemented—with business stakeholders driving alignment between data governance and strategic enterprise goals and IT handling the technical mechanics of data management—the door opens to trusting data, planning for change, and putting it to work for peak organizational performance.

**erwin DG**—especially when combined with **erwin EA, BP** and **DM**—delivers on these fronts, helping to propel a more collaborative organization and therefore an enterprise that is more agile, adaptable and data-driven.

## Related Products

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**erwin Collector:** Automatically harvests and aggregates operational data from a variety of enterprise systems, including ServiceNow and RSA Archer, into the erwin DG data dictionary

**erwin EA:** Complete and highly customizable set of on-premise enterprise architecture tools for integration into the customer environment

**erwin EA Agile:** Full-featured, cloud-based set of enterprise architecture tools using industry frameworks

**erwin BP:** Business process modeling software for visualizing system interactions, business processes and organizational hierarchies

**erwin DM Standard Edition:** Conceptual, logical, physical and dimensional model creation and deployment

**erwin DM Workgroup Edition:** Repository-based data modeler collaboration and model lifecycle management

**erwin DM Navigator Edition:** Read-only access for data model discovery and analysis

**erwin DM NoSQL:** Rapid app deployment, cloud infrastructure migration and reverse-engineering in an enterprise-class data modeling solution for MongoDB

**erwin Web Portal:** Web-based collaboration platform to share models and metadata with stakeholders

**erwin Safyr Option for ERP:** Metadata management and model creation for ERP and cloud applications

**erwin CloudCore:** Cloud-based hosting services for erwin data modeling and enterprise architecture solutions

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