

Deloitte.

 databricks



## ***REALIZE THE FULL POTENTIAL OF YOUR DATA WITH DATA GOVERNANCE***

### ***DATA'S LOST VALUE: RECLAIMING YOUR DIGITAL ASSETS***

Even before the workday begins, executive teams grapple with numerous data management challenges. The burgeoning volumes of data, swift technological changes, and evolving regulatory frameworks complicate the capture of quality insights. Talent shortages and high turnover can further compound the inefficiencies that tend to be inherent in many enterprise data programs. Additionally, the accumulation of technical debt, resulting from short-term fixes in data systems, could severely impede operational efficiency. Maximizing data value

is impacted by volume, federated data storage, and data quality. The exponential growth in data volume, coupled with rapid advancements in data storage technologies, has significantly heightened demand for advanced technical data skills. These developments underscore the critical importance of data governance, making it not only essential but also increasingly complex to implement effectively. To properly govern a company's data assets, a comprehensive data strategy requires the right tools, technical skillsets, and change management.

# ***THE PATH FORWARD***

## Integrating Data Platforms, Data Catalogs, and Data Implementation

Data governance is critical to integrate people, processes, and technology to help ensure data accuracy, security, and compliance, which are essential for the effective realization and sustainable management of data value.

Data governance tools today focus on **ten key pillars** to ensure effective management and utilization of data:

- 1. Data Quality Management** maintains accuracy and reliability;
- 2. Metadata Management** provides essential data insights;
- 3. Data Security** prevents unauthorized access;
- 4. Compliance and Policy Management** ensures adherence to regulations;
- 5. Master Data Management** offers a unified data view;
- 6. Data Stewardship** oversees proper data use;
- 7. Data Cataloging** organizes data assets;
- 8. Data Lineage** tracks data history and data flows;
- 9. Reference Data Management** categorizes data;
- 10. Data Privacy Management** protects sensitive information.

Each component is crucial for holistic data governance, supporting operational efficiency, data quality and strategic decision-making. Deloitte is an industry leader in assessing and implementing data enablement technologies like Data Catalogs & MDM solutions enhancing the adoption of these governance pillars.

*“Effective governance is critical for success,”*

asserts Joyce Snelders, specialist leader in Deloitte Consulting LLP’s Artificial Intelligence and Data Engineering practice. To reach a critical level of effectiveness, executives need strategic insight from across their organization, along with an understanding of the cultural shift and new data management practices required. Despite substantial investment in data infrastructure, many organizations struggle to extract full value.

## **FUTURE OF DATA CATALOGS**

As we enter the 2nd quarter of the 21st century, CDOs stand at the cusp of a revolution that promises to reshape the very fabric of how we manage, interpret, and leverage our data assets. Upon acquiring a Data Catalog, CDOs initially feel relieved but soon face impatience due to its lack of readiness for immediate application. Even with correct setup, its low usage and ambiguous benefits often render it a cumbersome task rather than a useful resource.

There is now, for the first time, a better way. AI heralds a new phase of synchronized, instant governance, making data management AI governance) a strategic, intelligent asset. Future catalogs will become transformative hubs, merging diverse data with AI for dynamic governance and scalability.

This move towards generative AI will help boost efficiency, agility, and offer deeper insights through smart data analysis, glossaries, and tagging, leading to proactive, AI-powered governance for instant challenge resolution and data optimization.

Embracing advanced capabilities is essential in today's quick, data-driven business landscape. Generative AI and modern data catalogs initiate a shift to smarter governance, providing a competitive edge. These breakthroughs deliver instant insights, streamline governance, and enhance decision-making. AI governance platforms can help ensure compliance, increase transparency, and foster trust, allowing informed decisions to enhance potential AI benefits and mitigate risks, advancing AI's success.

### **SOLUTION:**

Accelerate Digital Transformation with Deloitte, Databricks and Collibra

Digital transformation guided by tried-and-true data governance principles can unlock a wealth of opportunities for businesses to harness unrealized data value. By leveraging advanced data governance technologies, enterprises can effectively manage, secure, and utilize their data, transforming it into a powerful asset for strategic decision-making.

Since 2013, Databricks has been a trailblazer in data intelligence. The Databricks Data Intelligence Platform and its foundational lakehouse architecture revolutionizes how data is processed for improved analytics. Vijay Balasubramaniam, a Senior Partner Solutions Architect at Databricks, emphasizes Unity Catalog's role as a crucial native governance tool within the platform:

*"Databricks addresses data silos by providing a unified platform where multiple teams can work with the same data, eliminating the need for separate silos...and CDOs and executives typically decide to adopt Databricks when they focus on improving revenue, reducing costs, and minimizing risk,"*  
says Balasubramaniam

Collibra, founded in 2008 is more than a data catalog, its comprehensive governance solution engages all stakeholders--business and technical--to collaborate on policies, workflows, and business context, making it easier for everyone (especially business users) to find, understand, and use data effectively so they can make better, faster decisions, accelerate innovation, and drive business growth. Stijn "Stan" Christiaens, co-founder of Collibra, noted that investment

*"In data governance can be justified through efficiency gains in data processes and the creation of data marketplaces, but organizational change is needed. The challenges stem from a lack of formalized processes."*

The synergy between Collibra Data Catalog and Databricks Unity Catalog is pivotal for achieving the highest standards of data management excellence. Collibra is renowned for enhancing data accessibility and enriching data assets with crucial business context, making data more accessible and actionable for business users. Complementing this, Databricks Unity Catalog excels in data lineage, source-to-target mapping, transformation logic, business process rules, and data quality rules. Unity Catalog's ability to orchestrate these elements in tandem ensures that data flows are not only efficient but also

adhere to stringent quality standards. Mani Kandasamy, a Deloitte Technology Fellow, underscores Unity Catalog's capability to centralize data governance and streamline access control, stating, "With Unity Catalog, customers or clients can efficiently manage their data across the lakehouse and beyond without the need for manual discovery, thereby minimizing security risks."

Together, Collibra and Unity Catalog deliver a dual approach, bridging the divide between operational control and strategic data insight, while enhancing both data security and enterprise intelligence. The two technologies are also terrific complements to other data enabling technologies like Master Data and Reference Data Management specific solutions.

Strategic technical applications simplify data management complexities in today's digital landscape and offer a way to jumpstart the journey toward a well-governed data management organized. They offer comprehensive solutions for data governance, enterprise architecture, analytics, and more, transforming large organizations into data-empowered enterprise.

## **BETTER TOGETHER:** The Power of 3

A unified data management strategy is key to unlocking data potential and helping ensure enterprises are ready to lead in the digital age. Deloitte offers industry-leading digital transformation and change management methodologies in sectors like healthcare, energy, and manufacturing, leveraging best-in-class tools like Databricks and Collibra to turn data challenges into strategic assets.

### **CONTACT US TO GET STARTED**

#### **Tom Zipprich**

Databricks Global  
Lead Alliance Partner  
Deloitte Consulting LLP  
tzipprich@deloitte.com

#### **Mani Kandasamy**

Databricks Alliance CTO  
Tech Fellow  
Deloitte Consulting LLP  
mkandasamy@deloitte.com

#### **Joyce Snelders**

AI & Data Specialist Leader  
Deloitte Consulting LLP  
josnelders@deloitte.com

As used in this document, "Deloitte" means Deloitte Consulting LLP, a subsidiary of Deloitte LLP. Please see [www.deloitte.com/us/about](http://www.deloitte.com/us/about) for a detailed description of our legal structure. Certain services may not be available to attest clients under the rules and regulations of public accounting. This publication contains general information only and Deloitte is not, by means of this publication, rendering accounting, business, financial, investment, legal, tax, or other professional advice or services. This publication is not a substitute for such professional advice or services, nor should it be used as a basis for any decision or action that may affect your business. Before making any decision or taking any action that may affect your business, you should consult a qualified professional advisor. Deloitte shall not be responsible for any loss sustained by any person who relies on this publication.