Collibra

Collibra Data Intelligence Platform for Life Sciences

Overcoming data challenges

Pharmaceuticals, biotech firms and medical device manufacturers operate in a highly complex data landscape. Many are grappling with a combination of data sprawl and data silos whereby data resides in hundreds of disparate data sources spread across an on-premises and multi-cloud ecosystem.

In this type of environment, it is very difficult for data citizens — including clinical researchers, data scientists, data governance leads and data consumers — to easily find or understand the data they need. Users are unable to ascertain if the data comes from a trustworthy source and whether it is certified for use. Many are grappling with a combination of data sprawl and data silos whereby data resides across hundreds of disparate data sources in an on-premises, hybrid and multi-cloud ecosystem.

Since life sciences organizations operate in a highly regulated industry, data integrity issues coupled with a lack of data governance, transparency and traceability of data can elevate both operational and regulatory non-compliance risks.

Collibra Data Intelligence Platform is an intelligent data platform that leverages the power of machine learning and provides a holistic and integrated approach to cataloging, governing, protecting, managing and collaborating with data at scale across on-premises, hybrid and multi-cloud environments.

Speed innovation with trusted data

With Collibra Data Intelligence Platform, you can build a common foundation for data. Leveraging AI-powered capabilities and advanced automation in modern data management, you can implement FAIR data principles at scale. Moreover, you can empower data citizens across the organization — from R&D to commercial — to quickly discover, understand and collaborate with trustworthy data.

Leading life sciences organizations globally rely on Collibra Data Intelligence Platform to enable mission-critical applications and support their strategic business imperatives such as:

Regulatory compliance

AI governance

Drug discovery & clinical trials

Cloud data migration and modernization

Self-service analytics

Procurement & inventory management

Enable strategic use cases

Fortify risk and regulatory compliance

- Speed the automation of complex regulatory rules and standards and enable adherence to **GxP, IDMP, FD&C Act, Sunshine Act, DSCSA Act, HIPAA, GDPR and more.**

- Enact rigorous data management, governance, data quality and privacy guidelines as required by regulators.

- Obtain end-to-end data lineage and visualize data flow, trace datasets from souce to target and perform gap analysis.

- Meet stringent requirements for collecting, processing, storing and using data including reporting product information.

Enable explainable AI and build models you can trust

- Create a trusted repository of metadata (data about data) that includes AI model techniques, data inputs, data features, expected outputs and more.

- Empower data scientists to easily discover trustworthy data with rich business and technical context so they can build robust data pipelines and train models.

- Trace lineage of datasets and models with detailed information to better understand data transformations with comprehensive audit trails.

- Leverage machine learning (ML)-enabled data quality and observability to help detect data drift, outliers and patterns to ensure accuracy and performance of AI and analytics models over time.
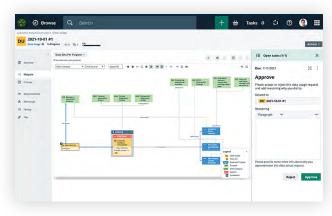

Figure 2: Visualize and understand data dependencies from source to target with end-to-end data lineage

Future-proof cloud data migration and modernization

- Quickly determine what impact migrating a particular dataset may have on upstream and downstream systems, as well as prioritize migration of datasets in the right sequence.

- Maximize the impact of your data migration by setting up controls to ensure that only clean data that meets your data quality standards is migrated to the cloud.

- Simplify data onboarding to maximize productivity by cataloging and managing the data in your data lake and data warehouse from a single centralized location.

- Obtain end-to-end visibility into the data in your data lake and modern data warehouses — such as Amazon Redshift, Snowflake, Google BigQuery, and more.

Accelerate data democratization and self-service analytics

- Enable a federated data marketplace built on a modern data mesh architecture for faster time-to-insights.

- Empower data citizens with rapid access to FAIR data that's fully governed and primed for self-service analytics and AI use.

- Leverage popular business intelligence (BI) tools and data science platforms such as Tableau and Dataiku in conjunction with Collibra Data Catalog to obtain a more complete view and understanding of your data.

- Ensure sensitive data including Personally Identifiable Information (PII) and Protected Health Information (PHI) is easily identified and fully protected with role-based access control.

Collibra

The Collibra Data Intelligence Platform Advantage

Life science institutions globally rely on Collibra Data Intelligence Platform to gain in-depth visibility into their data ecosystem across on-premises, hybrid and multi-cloud environments, without moving data, so that data assets stay protected.

Govern. Trust. Access.

Data Catalog

- Catalog
- ML Curation
- Ratings / Reviews
- Data Marketplace

Data Lineage

- Business Lineage
- Technical Lineage
- Impact Analysis

Data Governance

- Business Glossary
- Stewardship
- Data Dictionary
- Reference Data
- Data Helpdesk

Data Quality

- Continuous Monitoring
- Adaptive Rules

Data Privacy

- GDPR
- CCPA

Active metadata graph

Core Services

- Flexible operating model
- Native connectors
- Reports and dashboards
- Collibra everywhere
- Workflow engine
- Collaboration
- APIs
- Collibra Insights

> **IDC** estimates that clinical researchers generate 10s of terabytes of data each day. Nearly 30% of healthcare and life sciences costs can be attributed to poor quality of data.

Core capabilities

Rapid data discovery and self-service data access

- The intelligent data catalog is purpose-built to empower data citizens, so they can easily find and understand the data they need with rich business and technical context. With built-in crowdsourcing capabilities, users can easily collaborate with data. They can rate, comment on and prioritize data sets for use as well as provide feedback.

- A powerful contextual search engine and easy-to-use, intuitive data shopping experience enables data citizens across the organization to easily locate and shop for fully governed and trustworthy data they need.

Embedded privacy by design and data protection

- With Collibra, life sciences organizations can enforce comprehensive data privacy and protection policies in adherence with regulatory stipulations and corporate best practices for data retention and usage.

- ML-powered automation enables rapid classification of data by category, sensitivity and user type at scale. Advanced capabilities in data privacy and protection will help ensure sensitive data is easily identified and protected with role-based access control.

End-to-end data lineage and visibility

- Automated data lineage enables data citizens to dynamically visualize the flow of data from source to target as well as understand all the data dependencies at a granular level.

- Data citizens can trace lineage of each dataset with rigorous audit trails for reporting purposes. An active metadata graph - that connects business, technical and privacy metadata with data quality and lineage – provides rich content and context to users.

Collibra is the Data Intelligence company.

For more information, visit us at
www.collibra.com.

We accelerate trusted business outcomes by connecting the right data, insights and algorithms to all Data Citizens. Our cloud-based platform connects IT and the business to build a data-driven culture for the digital enterprise. Global organizations choose Collibra to unlock the value of their data and turn it into a strategic, competitive asset. We have a diverse global footprint, with offices in the US, Belgium, Australia, France, UK, Czech Republic and Poland.