

Life Sciences Company Reduces Data Product Generation Time and Cost by 63% with Modern's DataOS

Industry

Life Sciences

Headquarters

Germany

Objective

Drive faster data insights using high quality data, while complying with all applicable regulations.

DataOS® Key Results

- **Create a single source of truthful data**
- **Enrich data quality by preconfiguring data validation rules**
- **Full history of "audit trail" to understand all the events happened within the data ecosystem**

The Customer

As one of the largest multinational pharmaceutical companies in the world, our customer commands yearly revenues of \$4.5 billion. It wanted to leverage its expertise and authority to create innovative solutions for global challenges and improve the standard of living for everyone.

The Challenge

Our customer conducts research to discover new drugs, test and validate their efficacy and safety, and bring them to market. This is a painstaking process that accumulates vast amounts of sensitive data that require storage, cleaning, and analysis in a highly regulated business environment. Because the data comes from patients, test subjects, and healthy volunteers through laboratories and electronic medical devices, its use requires care and compliance with strict privacy standards, as well meticulous and auditable records.

To improve time to market, they needed to integrate multiple data sources, then automate data quality and audit trails. The right data solution would make it faster and easier for the company's researchers to find and analyze the right drug development data while also preserving privacy and assuring compliance with sensitive data regulations.

DataOS: Fastest time to value

Unlike traditional data systems that take months to install, the customer deployed DataOS in just six weeks and achieved:

- **A Single Universal Data Catalog:** All scientists now have a single source of truthful data that has been ingested from many diverse data sources.
- **Auditable Data Lineage:** The flow of data from origin to destination is fully tracked and auditable.
- **Full Compliance Data Governance:** Full compliance with government regulations (US FDA CGMP under 21 CFR Parts 11, 210, 211, and 212).

The Benefits

Modern delivered an enterprise-grade solution **in just 6 weeks:**

- 63% reduction in time and cost for product generation
- Greater trust in data solutions
- Established a single source of truth for data quality and streamlined pipelines.

In addition, DataOS provides all the necessary primitives to enhance data quality. Our customer pre-configured data validation rules so that all data was consistent, complete, and unique; regardless of source.

Capture real time insights with DataOS

DataOS establishes a single source of truthful data.

It uses a google-like semantic search function so that users can find the data they need. Users therefore work with high-quality data from the start, helping speed up discovery and drug development.

DataOS creates datasets specifically dedicated to audit events happening across all applications and services. This “audit feed” can be packaged and syndicated to external systems to analyze and contextualize all events that occur in the data ecosystem.

As a result, DataOS...

- Improved performance on internal data audits, leading to greater trust in data and decisions.
- Reduced time and cost for generating data products by 63%

Modern Solution

The Modern Data Company deployed DataOS in six weeks, providing out-of-the-box data cataloging, advanced tag-based governance engine, and other applications to explore their data.

About DataOS®

DataOS enables enterprises to ingest, process, transform, govern, and orchestrate data from disparate data sources to deliver a trusted and real-time view of customer and business data. DataOS humanizes data and its access, breaks data silos and transforms companies as they take steps towards data democracy and gaining business insights in real-time.

About The Modern Data Company

Founded in 2018, The Modern Data Company (TMDC) began with the realization that enterprise-wide data access has been siloed. Data engineers and database administrators have been the longstanding data gatekeepers who funneled data to analysts and data scientists. We aim to change that by freeing enterprises to make better data driven decisions by democratizing access to data. When all employees, irrespective of their technical skills or background, can easily explore and analyze enterprise data, then both productivity and market expansion are realized at a faster pace.