Architecture

Global Design and Architecture Firm Optimizes Space Utilization Data Using Modern's DataOS®

The Customer

Our customer is a global design and architecture firm and one of the largest revenue generators in the world of architecture. Their mission is to create a better world through the power of design.

The Challenge

Our customer struggled to collect and deliver data—both to build digital simulations for their architecture projects and to understand how interior spaces were being used so that space could be optimized.

Internal teams attempted an in-house solution using Databricks and Azure data products, but a lack of specialized skills meant many false starts. After more than a year, the data team still could not deliver the necessary data.

The Solution

DataOS helped the customer reduce time in collecting and understanding data from multiple and varied sources, speeding up data analysis. Their business teams are able to focus on data insights and also syndicate data-to-data destinations without worrying about data security. Better data means they can improve the architectural simulations that help them explain their ideas to customers, boosting sales.

DataOS®: A Unified View of Complex Data

We completed an end-to-end deployment of DataOS on the customer's cloud within four weeks—faster than any other data management platform on the market. With the data catalog, data discovery and governance tools in DataOS, the customer was able to ingest and integrate data from smart sensors and internal datasets. DataOS helped our customer create a unified view of their data and made this data readily available to power their analytics and building information modeling.

Key Results

- Data ingestion from 30+ data sources 52% faster.
- Data discovery 3.4x faster through Datanet.
- Secure data syndication to 5+ data destinations.

Industry

Architecture

Headquarters

San Francisco, CA

Objective

Create better designs and optimize space utilization using data

Modern Solution

The Modern Data Company deployed DataOS in six weeks, ingesting different types of data from various sources.

DataOS Deployment

Deployment of DataOS in our customer's environment made it easy for them to connect to multiple data sources (including sensors, IoT devices, and internal datasets) and ingest data from them simultaneously.

- Datanet, part of DataOS, is a modern data catalog that creates a single source of data and presents a unified view of all the data across the enterprise. Data pipelines from multiple sources can be defined within minutes using simple, declarative YAML files, then deployed using DataOS Cluster APIs. Datanet also presents a simple google-like semantic search capability, to help users find the dataset of their choice within seconds. This makes data discovery easier than ever.

- Data syndication is simplified with the advanced governance engine that comes with DataOS. Customers can set attribute-based access control that uses tags and conditions to define data security policies. Once these security policies are set, customers can share these datasets to any external entities for further analysis and insights.

How The Customer Used DataOS

DataOS simultaneously ingested data from various sensors and IoT devices to create a unified view of data. This unified view included its dictionary, enabling the customer to track the entire lineage of data from origin to destination. Our customer was able run their first real-world deployment of these sensors after a year of fruitless work with other data products. With their newly empowered simulations, they were able to demonstrate these capabilities to their customers, winning new business for the company.

The Benefits

- Created a holistic and unified view of customer's data
- Explored and understood data better with data dictionary and data lineage
- Syndicated data to various data destinations in a secure fashion
- Customer realized a 17% increase in sales year over year.