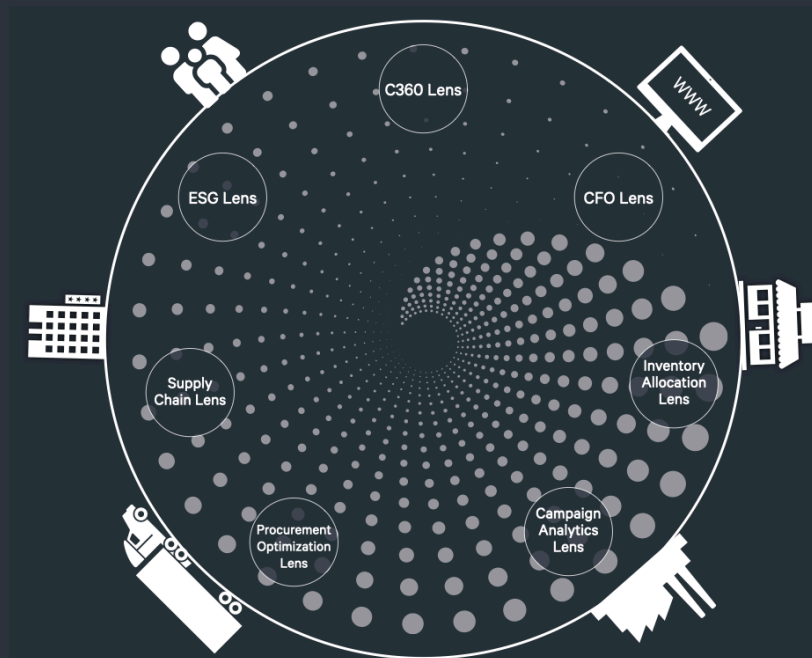**IF Modern**®

DataOS®

The Fastest Path From Data to Decisions

DataOS is the world's first fully integrated data operating system. It delivers a data infrastructure that rapidly moves you from data to trusted decisions in weeks — instead of years.

It builds a connective tissue across all of your data, without any changes to your legacy systems, to enable a complete view of enterprise data.

DataOS employs a composable data architecture that eliminates the need for constant integrations and rigid architectures. It delivers a scalable and agile data infrastructure that is driven by right to left modeling instead of conventional ETL or ELT pipelines.

What makes DataOS different

Modern layer over legacy systems

DataOS allows organizations to instantly use their legacy systems in modern ways. You can apply modern governance and activation to legacy systems without the need to modernize them.

Data analysis without data movement

Perform most data analyses with data in place. Move only the data that needs to be operationalized, which means less risk and cost and significantly more value.

Right-to-left data engineering

Business users define the outcome they need. DataOS automatically gets the required data without having to write pipelines.

Modern composable architecture

Composable archtiecture allows you to realize data fabric, lakehouse, CDP, and similar architectures in weeks vs years.

Modern®

DataOS® – The World's First Data Operating System

Connect to any type of data

Our Data Depot construct allows you to connect to any type of source or sync system. It abstracts the underlying technology and credentials needed to connect to these systems so that you can model against that data and then operationalize it.

Automatically catalog your current data infrastructure

DataOS automatically scans your current data infrastructure and catalogs all data elements across your enterprise. This enables a Google-like semantic search across all things data (e.g., metadata, queries, jobs, dashboards, etc.). DataOS catalogs data across multiple clouds and data centers with modern and legacy systems.

Understand the relationships between all of your data elements

DataOS provides real-time context to your data. Our knowledge graph charts all the relationships between data sets, queries, jobs, dashboards, metrics, tags, etc.

Access any type of data using a common SQL interface

DataOS normalizes access to any type of data across your enterprise. You can now use standard SQL to access data within CSV files, Kafka topics, databases, data lakes, or any other data system. This enables organizations to apply modern governance to legacy systems. DataOS is the only product on the market that promises to free your data while making the data more secure than before.

Data-as-a-product

DataOS converts database tables, blob files, CSV files, unstructured data etc. into data products. It automatically creates a data dictionary and manages schema evolution. Additionally, DataOS automatically profiles the data, runs quality checks, creates lineage and impact analysis, versions your data, and converts disparate data elements into a standardized tabular structure.

DataOS Does Everything Without Moving Any Data.

DataOS® – The World's First Data Operating System (continued)

Right to left data engineering

DataOS has a patented right to left data engineering capability that allows business users to define what data they need to drive business outcomes. DataOS automates the data pipeline to deliver data to the business user. This eliminates the need for high skill resources to support business teams and makes them self-sufficient to access the data they need.

Business ontologies

DataOS creates a business ontology of your data which allows business users to view data through a business lens without the need to understand the systems, technologies, and formats in which data is stored across the enterprise. Business users also don't need to worry about how the data needs to be joined together. This creates the simplification needed for them to use data on-demand to run all of their data workloads (e.g., BI, AI, Data Sharing etc.)

Modern governance

DataOS delivers one of the most advanced governance capabilities in the world. Our attribute-based access control enables enterprises to govern data centrally in a proactive manner.

Data sharing

DataOS enables organizations to share just the metadata instead of transferring data for data sharing purposes. We enable data movement only when your 3rd parties need to operationalize data. Our governance eliminates the need to make data copies to share data. One copy of data can be shared with as many organizations, systems, and users as you would like. This greatly reduces risk and costs associated with data operations.
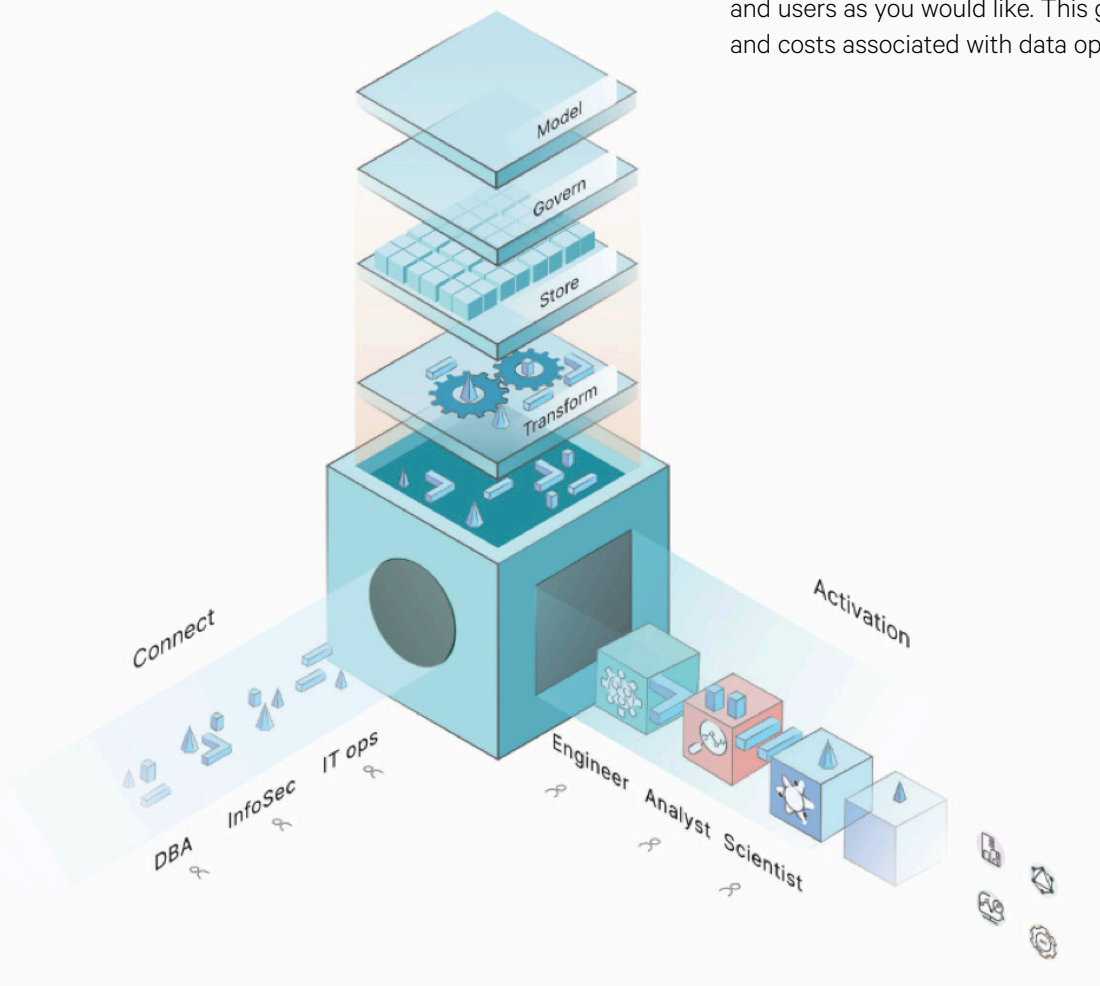
DataOS® – Key Features

Data Depot

Connect data sources to DataOS and start getting value without moving any data

Governance

Automate data access control with granular privacy controls. ABAC governance enables flexible and scalable policies that adapt to changing or new compliance regulations

Automatic Data Catalog

Automatic cataloging of all data with real-time updates so that teams discover deep connections, uncover patterns within the data, and get definitive, explainable results

Icebase

Built-in lakehouse that delivers ACID compliance, reliability, and performance for both structured and unstructured data

Workbench

A fast, distributed SQL query engine for big data analytics providing low code access to data and insights for business users — a data GUI for everyone to use

Data Lens

Create a business semantic layer that enables users to interact with data, without schema awareness

Observability

Monitor the health and performance of your data and enhance data reliability

Data Sharing

Enable seamless, secure, and monitored data collaboration across your business ecosystem to unlock new business models and insights

Data Quality

Build trust in your insights by ensuring the quality of your data with validation and profiling checks

Data as a Product

Convert data into consumable data products with dictionary, schema evolution, lineage, impact, profiling, usage, and quality

Knowledge Graph

A semantic network that is enriched in real-time with metadata and lineage to reflect the complex relationships between various data sets

Data as Software

Use and deploy data as software with versioning capabilities including data replay

Modern DataOS®