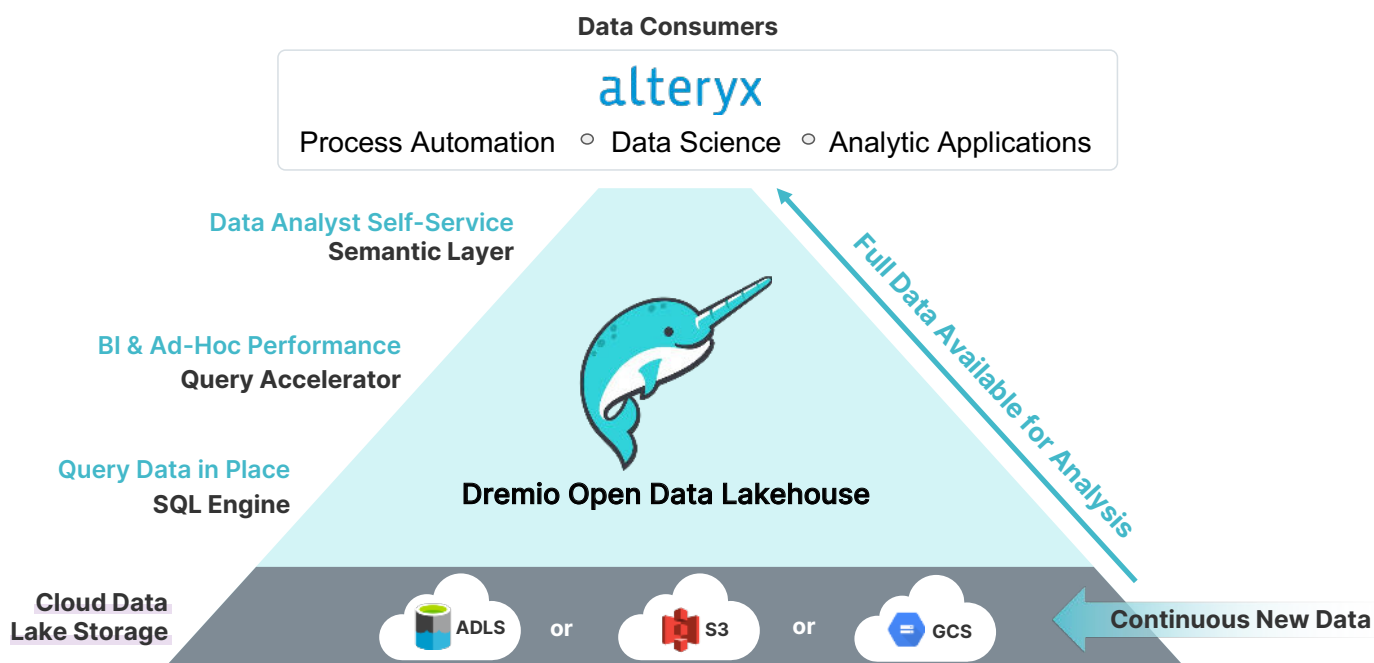# Unlock the value of your data lake with the Dremio Open Data Lakehouse and Alteryx

Alteryx is a powerful analytics automation platform delivering end-to-end automation of analytics, machine learning, and data science processes that accelerate digital transformation. Users can utilize an intuitive, code-free interface to build data workflows that save time and drive insights across all departments and industries.

Dremio is the easy and open data lakehouse that gives data consumers direct access to data lake storage without moving or copying data. Dremio makes it easy for Alteryx users to utilize the vast amounts of data stored in data lakes with accelerated query performance. With Alteryx and Dremio, users can explore their data with no limitations at a lower cost.

Running Alteryx on the Open Data Lakehouse

Data lake adoption has grown due to exponential data growth. Traditional data warehouse architectures weren't built to manage large volumes of data in various forms and structures. Although data lakes worked great as cheap and efficient storage, they weren't equipped to deliver enterprise-grade Business Intelligence (BI) and reporting capabilities. As a result, data teams rely on custom Extract, Transform & Load (ETL) pipelines to move data into proprietary formats, and then duplicate data in the form of BI extracts and cubes to meet Service-Level Agreements for performance. As ETL pipelines and data copies proliferate, they create a bottleneck for data teams that result in increased turnaround times for data access requests, additional costs, and additional brittle processes that commonly result in downtime.

Data Consumers

alteryx

Process Automation ○ Data Science ○ Analytic Applications

Data Analyst Self-Service
Semantic Layer

BI & Ad-Hoc Performance
Query Accelerator

Query Data in Place
SQL Engine

Dremio Open Data Lakehouse

Full Data Available for Analysis

Cloud Data Lake Storage

ADLS or S3 or GCS

Continuous New Data

Dremio provides data warehouse capabilities directly on data lakes, giving data teams the data management, data governance, and enterprise-grade query performance required to satisfy the needs of data consumers. It delivers these capabilities without moving, copying, or aggregating data. Dremio simplifies data pipelines, reduces the time and effort required for data teams to respond to data access requests, makes data consumers more self-sufficient, and

gives users access to a consistent view of the freshest and most granular datasets.

Users who need access to data in the data lake can use Alteryx's in-database capability to push down queries to Dremio and easily and quickly return results from massive datasets. They can then share insights with other data consumers with Alteryx's write-back capability.

Dremio & Alteryx: Integration Features

Dremio offers several features that extend the self-service functionality and performance of Alteryx:

Direct access to data lake storage. Dremio gives Alteryx users direct access to the data lake. Cloud data lakes represent the first destination for the newest and fastest growing sources of customer and operational data, and Alteryx users need more of that data for analytics. Dremio simplifies and accelerates access to that data.

The semantic layer enables self-service access to data with a no-copy architecture. Technical and non-technical data consumers can perform many data preparation tasks in Dremio using SQL, including joining multiple physical datasets into virtual datasets that exist as simple SQL statements, rather than moving or copying the data. Dremio's no-copy architecture results in a single consistent view of the data for all data consumers, and reduced management and maintenance effort for data teams.

Query performance at scale. Dremio features a powerful SQL query engine that optimizes query performance. Due to the performance constraints of many query engines, Alteryx users often find themselves limited in terms of the volume of data they can analyze. Dremio enables Alteryx users to explore billions of table rows at interactive speed.

Share insights with others. Alteryx gives data consumers the ability to write back to the data lake. Other data consumers can take advantage of analytic insights discovered in Alteryx with tools like Tableau and Power BI. This capability facilitates data democratization by giving users across the organization access to insights.

Dremio & Alteryx: Process Automation on a Modern Data Architecture

Alteryx Designer gives data consumers of all skill levels the power to explore their data, and create workflows using easy drag-and-drop functionality. The Dremio Open Data Lakehouse makes it easier than ever to get data from the data lake into Alteryx, eliminates performance constraints, and enables data sharing across the organization.

Try Dremio with Alteryx Today

Getting started with Dremio Cloud is easier than ever. Visit www.dremio.com/get-started and sign up for your Forever-Free tier today. The only thing you pay for is AWS infrastructure.

Follow the instructions in the documentation to connect Dremio to Alteryx Designer: https://docs.dremio.com/software/client-applications/alteryx-designer/