Calibo

Achieving flawless
data migration and
app modernization
for cloud

Highlights

Data and applications made sharable across teams without investments in ad ditional data centers at remote locations

The pay-per-use model of cloud consumption leveraged to deliver significant cost reduction in data management

The client is future-ready with the ability to leverage AI and ML

Background

The pharma industry is obsessive about capturing and storing its data. This includes data related to trials, manufacturing, testing, patient records, cost of treatment, human resources, suppliers, marketing, finance, etc. Currently, Phase III clinical trials alone generate an average of 3.6 million data points, or three times the data collected by late-stage trials 10 years ago. Data is the cornerstone of the industry. It ensures the efficacy, quality, and safety of products, supports R&D, drives innovation, and helps meet regulatory requirements. Without access to reliable data, the pharma industry would be severely handicapped.
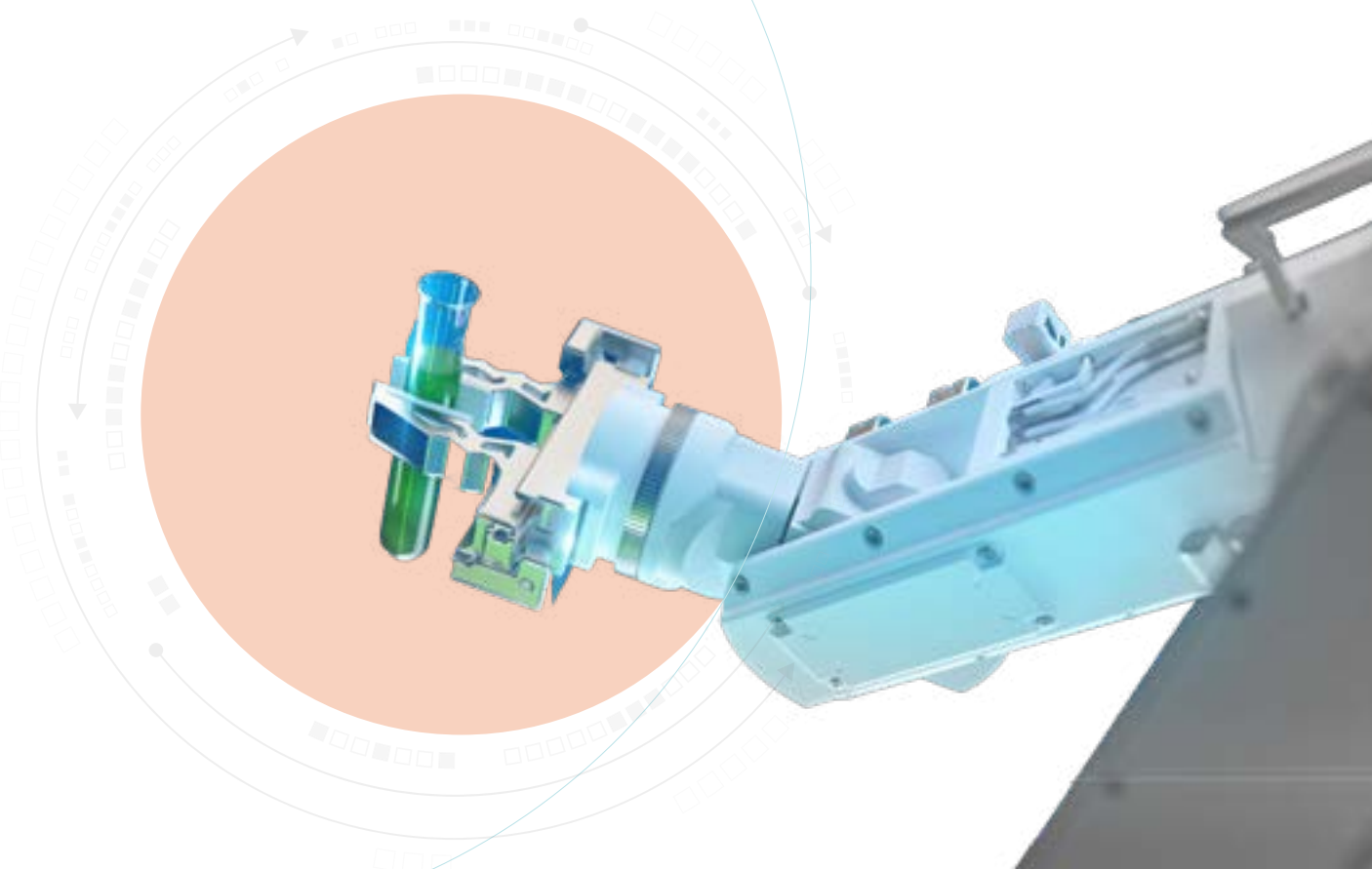
Pain Point

A global client from the pharma industry had stored ~10 years of its data in an on-premise Oracle database. The data was stored based on past industry best practices. With rapid evolution in the industry and the needs of the organization changing, the client wanted to migrate its Clinical Analytical Functional Database (CAF DB) to cloud. This is data related to Global Drug Discovery, development, and trials. The goal was to:

- Reduce the cost of maintaining the data

- Apply Artificial Intelligence (AI) and Machine Learning (ML) on top of the DB

- Improve the value of the data by making it sharable to an increasingly decentralized workforce

- Enhance security

In addition, the client had six applications—CPP, RDI, FLAIR, GP, TCF and UVP with data related to Clinical Analytics project areas such as resourcing, audits, inspections, vendor management, trial, patient costs, benchmarking, and other operational data. These applications were part of the CAF DB. These legacy applications had to be migrated to cloud along with the data while Spotfire, the data visualization tool used by the client, had to be replaced by Qlik Sense for superior data exploration and visualization.

Cloud transformation

AWS was the cloud platform to which the data and applications had to be migrated. The client named its multi-layered cloud system F1. The data was moved by the client's F1 team from the pre-landing layer to the landing layer. Altimetrik helped in unifying the data by using a unified model agreed across the organization in the unification layer and further enhanced the data using the refinement and publish layers with the help of snowflake. Snowflake's features of fine grain access control helped in providing access across the data layers across the various personas .Altimetrik then created semenatic layer on the data with Qlik Sense, from where the client's team could create visualizations for the senior management.

In addition to the Qlik Sense integration, Altimetrik broke down the code for all six client applications written in Oracle MySql, transformed, and migrated them to the new environment.

Why Altimetrik

Altimetrik has worked with the client on creating its data platforms and has migrated the client's data from on-premises to AWS Cloud. These initiatives have given us a deep understanding of the client's data infrastructure, allowing us to take ownership of projects, deliver the target performance and generate goodwill.

Altimetrik also approach the engagement with an Agile mindset, primarily focused on how the client's engineering ecosystem could successfully transform by adopting continuous learning/continuous improvement models.

As part of the engagement Altimetrik has committed to establishing a governance team and a reporting cadence monitored by our leadership team.

Effective Execution

Altimetrik's six-member off shore team delivered the AWS migration and transformation in six months:

- Six business critical applications migrated to cloud within six months

- Replaced legacy on-premises database (Oracle DB) and outdated visualization tool (Spotfire) with cloud and Qlik Sense.

- Improved data availability

Results

Enhanced collaboration: The client can share data and applications across teams without having to build additional data centers at remote locations

Reduced cost: The pay-per-use model of cloud consumption has significantly reduced data management cost

Future-ready: The client is future-ready, can leverage AI and ML, has improved availability, almost-infinite scalability, and superior security

About Calibo

Calibo is a leading digital product and platform company. It created the first end-to-end, cloud-based, self-service platform, which helps enterprises simplify and accelerate software application development and data engineering from ideation to operationalization. Enterprises across the world of all sizes can realize faster time to market for their digital and data initiatives by leveraging Calibo's platform. It improves developer experience and productivity by leveraging best-in-breed technology, toolchains, out-of-the-box processes, and intelligent automation. Learn more at calibo.com.