

Highly scalable Azure data platform enables new aftermarket revenue streams

Leading Heavy Vehicle
Manufacturer



Standout Case Study

2023

Manufacturing

North America



Opportunity

The client, a maker of heavy vehicles such as trucks and buses, wanted to explore new growth opportunities for aftermarket services.

The client, after having built an infrastructure to collect telemetry data from vehicles, needed to make that data usable to derive patterns, define business cases and monetize for customer applications.

They partnered with LTIMindtree to help them get more value from their data. This was the client's first engagement with the LTIMindtree, who was chosen based on their past successes in addressing similar opportunities.

Imagining IT Differently

An important aspect of the solution was a data platform based on Microsoft Azure. Built in a three-month time frame, it features:

- Data lake for storing raw data and data warehouse for aggregated data storage.
- Rules based data ingestion capability resulting in configurable pipelines for preprocessing, validation, and transformation of data so that it can be utilized for multiple use cases.

This platform will allow the client to introduce new data-centric aftermarket services going forward, such as range estimation and driving behavior analysis. According to the client, LTIMindtree's technical expertise contributed to the successful build-up of the solution in a very short time.

Future Made Possible

The solution designed by LTIMindtree has enabled the client to improve data quality and standardize data from close to 200,000 vehicles in North America. They now process, validate and transform multiple tera bytes of data covering more than 500 attributes.

This data is crucial for the client's plans to develop new insights and use cases for fleet owners with an initial focus on preventing vehicle failures and reduce annual maintenance costs for customers.

According to ISG, this case study is an example of partnership focused on scalable technology solutions to realize business value.