Leading manufacturer gets high-value insights in less time

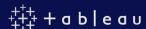## Client
Leading components manufacturer and supplier

Company Size
350+ employees

Location
Global

Featured Partners
+‡+
+‡+ + a b | e a u

A leading global manufacturing company needed to accelerate their access to data and insights to improve operations and competitiveness. Burdened by manual reporting processes and an overwhelming volume of data, the client turned to Marlabs for a strategic analytics solution. The goal was to create a centralized, scalable, and self-service analytics platform that could meet the evolving demands of the business and reduce the time spent on data preparation.

Marlabs partnered with the manufacturer to modernize its data environment using Azure Synapse and Power BI. We implemented a flexible framework for ongoing governance and scalability. The result was faster access to reliable, actionable insights with significantly reduced reporting overhead and enhanced data literacy across the organization.

Data Strategy & Architecture

Business Intelligence & Analytics

Cloud Data Engineering

Data Governance & Enablement

The Challenge: A need for faster access to reliable insights

Objective: Deliver faster and more meaningful business insights through modern analytics capabilities.

Existing Issues: Reporting processes were slow, fragmented, and overly reliant on manual data manipulation.

Solution Needed: A scalable, governed analytics solution that could unify data sources and promote self-service access.

Outcome: Enabled faster decision-making and increased analytics maturity across the organization.

A global manufacturer needed to reduce the time spent on manual reporting and empower users with more immediate access to trusted data.

The Solution: Scalable solution through modern architecture and enablement

Marlabs developed a centralized analytics platform using Tableau, which we supported with a data governance model and a framework for business user enablement. This solution allowed the client to gain faster access to curated insights while maintaining consistency, scalability, and data quality.

Discovery & Assessment

Our team conducted in-depth analysis of business needs and existing reporting challenges.

Workstreams:

- Stakeholder alignment
- Pain point identification
- Data ecosystem review

Architecture & Engineering

Next, we built a scalable analytics platform using modern cloud architecture.

Workstreams:

- Data model design
- Pipeline configuration
- Azure Synapse implementation

Enablement & Adoption

In this phase, we empowered business users through education, documentation, and collaboration.

Workstreams:

- Governance framework creation
- Self-service training materials
- Power BI dashboard rollout

Optimization & Evolution

Our team refined and expanded the solution to support future needs and greater data maturity.

Workstreams:

- Feedback integration
- Performance tuning
- Continuous improvement strategy

Services and Technologies Used:

Services:

- Data Strategy & Architecture
- Business Intelligence & Analytics
- Cloud Data Engineering
- Data Governance & Enablement

Technologies:

- R
- Tableau

The Results: Impact on the client organization

The partnership between Marlabs and the manufacturer resulted in a dramatic improvement in how the organization accessed and used its data. By streamlining the reporting process and empowering end users with self-service tools, the company enhanced its agility, scalability, and ability to make data-driven decisions. The success of this project also laid a strong foundation for continued analytics evolution and enterprise data governance.

Accelerated Time to Insight: Significantly reduced the time required to access and analyze critical business data.

Improved Data Trust & Consistency: Centralized data and standard definitions ensured alignment across departments.

Reduced Manual Reporting Effort: Automated workflows replaced labor-intensive Excel-based processes.

Enhanced Self-Service Capabilities: Empowered business users to independently explore and visualize data.

Increased Scalability: Designed a flexible architecture that could easily accommodate future analytics needs.

Strengthened Governance Practices: Implemented a sustainable framework for managing data access and quality.