Growing data capabilities throughout a manufacturing organization

Client
A large manufacturing company serving multiple industries

Company Size
5,000+ employees

Location
United States

Featured Partners

Microsoft

A large, multifaceted manufacturing organization was rapidly evolving, but its data systems and practices hadn't kept pace. With teams across the organization relying more heavily on data, the lack of centralized infrastructure and consistent governance created barriers to access, trust, and insight. Leadership recognized the need to build a modern foundation for data enablement across the enterprise.

Marlabs partnered with the organization to establish scalable architecture, implement data governance practices, and enable data fluency throughout the business. Together, they created a sustainable roadmap for growth that improved data accessibility, collaboration, and decision-making across all departments.

Data Strategy & Governance

Cloud Architecture

Business Intelligence & Analytics

Training & Enablement

The Challenge: Enabling smarter operations through centralized data access

Objective: Create a sustainable and unified data ecosystem to support enterprise growth.

Existing Issues: Data was siloed across departments with no shared governance, which limit visibility and trust.

Solution Needed: A scalable data architecture, governance framework, and enablement strategy to support long-term data maturity.

Outcome: A modern cloud-based infrastructure with standardized access and improved data quality, along with a data-literate organizational culture.

The manufacturing company struggled to make enterprise-wide data accessible, reliable, and actionable for decision-makers. As they transformed their data strategy and business intelligence approach, they looked to Marlabs for support not only with their data systems but also with enabling their team members to use the updated systems to make data-driven decisions.

The Solution: Building the foundation for a scalable data ecosystem

Marlabs guided the manufacturing company through a structured transformation of its data capabilities. This included strategy development, governance and architecture establishment, and enablement of internal teams to sustain and expand adoption across the organization.

Phase 1: Assessment & Roadmap Development

We performed a discovery process to understand current systems, processes, people, and technologies, as well as the gaps and business priorities.

Workstreams:

- Capability benchmarking
- Roadmap development
- Gap identification
- Prioritization framework

Phase 2: Governance & Architecture Buildout

Marlabs designed and implemented a modernized data architecture and foundational governance policies.

Workstreams:

- Policy creation
- Metadata definition
- Cloud architecture implementation
- Platform configuration

Phase 3: Enablement & Change Management

The team equipped teams with the tools, training, and support to adopt new data practices.

Workstreams:

- Stakeholder training
- Communication planning
- Adoption support
- Resource development

Services and Technologies Used:

Services:

- Enablement
- Training
- Data
- Business Intelligence (BI)
- Advanced Analytics
- Data Visualization

Technologies:

- Microsoft Data Fabric

The Results: Impact on the client organization

By implementing a scalable data foundation, the manufacturing company dramatically improved access to trusted data across departments. What once was a fragmented ecosystem became a unified platform, empowering teams with the insights needed to make smarter, faster decisions. The organization is now positioned to evolve its data strategy with confidence since it is backed by the right tools, governance, and internal momentum.

Centralized Data Access: The unified data platform improved accessibility and consistency.

Empowered Teams: Our training and enablement services increased internal data proficiency.

Improved Data Quality & Trust: The governance policies established clarity and confidence in reporting.

Cross-Functional Alignment: By standardizing data definitions, we enhanced their internal teams' collaboration efforts.

Faster Decision-Making: Real-time insights supported more responsive operations.