COMPREHENSIVE DATA MODERNIZATION

Big Data & AI

INDUSTRIES
Medical Technology

DURATION
18 months

OVERVIEW
The goal was to modernize the client's data infrastructure and enhance decision-making capabilities through advanced analytics and improved data governance. Focus areas included optimizing supply chain operations and integrating legacy systems with modern BI tools.

OBJECTIVES
- Enhance data-driven decision-making by migrating existing systems to Power BI, enabling real-time data visualization and reporting across the organization.
- Establish a robust data governance framework to ensure data accuracy, security, and compliance and promote responsible data management practices throughout the enterprise.
- Implement advanced analytics and predictive capabilities to drive operational insights, focusing on optimizing supply chain management.
- Empower informed decision-making by integrating modern tools that enable the organization to anticipate trends, streamline operations, and gain a competitive advantage.

SOLUTION
- Deployed a team of 20 data experts specializing in Business intelligence, Data pipelines, Data Governance, Analytics, and predictive modeling
- Migrated legacy systems to Power BI for improved data visualization and decision-making.
- Developed comprehensive reporting and monitoring tools to enhance data insights and operational oversight.
- Established templates and best practices to minimize technical debt and streamline future development efforts.

- Led the architecture and deployment of data pipelines, ensuring seamless integration of SAP ECC data into Snowflake for enhanced data storage and processing.
- Trained internal teams to ensure knowledge transfer and accelerate operational efficiency.
- The client's data governance framework was enhanced to support better data management and regulatory compliance.
- Introduced advanced analytics and predictive modeling for optimizing supply chain operations.

IMPACT
- Streamlined reporting and analytics processes through Power BI migration.
- Improved data governance and reduced technical debt by implementing standardized templates and best practices.
- Enhanced decision-making and predictive capabilities in collaboration with supply chain teams, leveraging advanced analytics and AI.
- Increased velocity and efficiency of internal teams through comprehensive training and support.

TECHNICAL ENVIRONMENT
Our project leverages diverse technologies, including Power BI for reporting, Snowflake for data integration, SAP ECC, Microsoft Fabric, SQL, BDT, and Blue Yonder for supply chain analytics and optimization.

ALTEN TECHNOLOGY