

Health Data Intelligence & Diagnostics Case Studies

GlobalLogic Partnerships That Transform Patient
Care Services





Partnerships That Create World-Class Digital Patient Experiences

The world's leading MedTech, Med Devices, CROs, and In Vitro Diagnostics organizations are continuously seeking new ways to improve the quality and increase the value of the care they bring to their patients.

They are tapping into the power of digital technologies to drive down costs, increase access to care delivery, and improve medical care.

Creating a user-friendly mobile app that communicates with a patient's medical therapy device can increase patient engagement, enabling much better patient performance, improving patient satisfaction, and helping the patient complete their therapy faster.

And embedding data management software and enabling connectivity for medical devices can make data more readily and rapidly available to be analyzed, creating opportunities for product innovation.

If your organization is embarking on any new digital engineering initiative or looking to adopt cutting-edge modern technologies in a strictly regulated environment, GlobalLogic can help.

GlobalLogic is a pioneer in developing solutions ranging from embedded medical device software to Software as Medical Devices (SaMD) and other patient therapy devices, as well as connected health systems and digital healthcare platforms.

Here are some success stories of organizations that partnered with GlobalLogic to create enhanced patient value that drives business outcomes.

Let's Work Together

Searching for a new engineering partner? Let's see how we can help. [Click here to reach out to us.](#)

A group of healthcare professionals, including doctors and nurses, are gathered around a table in a modern office setting. They are engaged in a discussion, with some looking at a laptop and others at documents. The scene is viewed through a glass partition, creating a layered effect. The lighting is bright and natural, suggesting a daytime setting.

Data Wrangling and Governance Solution Development

A blueprint for data wrangling companywide.

Client Scenario

A large manufacturer of devices used in interventional medicine determined significant value in the data available from various sources.

However, as is often the case in this segment, the data resided in disparate siloes. It flowed from clinical systems and digital platforms, with five data sources – including their own medical devices – contributing to 30GB of daily data ingest.

The company needed to transform its data into actionable insight but did not have the internal expertise to create the complex solution needed.

Our Approach

GlobalLogic took complete responsibility for the solution's development, from strategy and implementation to quality assurance and deployment.

The solution includes a **data lake** capable of ingesting multiple data streams and a workbench that enables data scientists and analysts to run machine learning (ML) models on a scalable and secure cloud infrastructure.

GlobalLogic developed systems and guidelines for onboarding new data sets as well as data governance, project cost and usage monitoring, and data security classification provisions compliant with GDPR and HIPAA.

Benefits

The solution enabled the client's data research team to **build ML models based on comprehensive data sets** collected across clinical and digital data sources.

These models **help with clinical research (improving therapy outcomes)** as well as **product design decisions** and **targeted patient outreach programs**, intending to improve the client's ability to bring diagnostic and therapy capability to the market faster.

In addition, the solution not only allowed the client to extract useful insights from their data for this therapy group but also **served as a blueprint for similar data wrangling** and governance initiatives across the organization.



Data Lake and Data Visualization (Insights) Solution

Real-time analytics without
latency.

Client Scenario

A large U.S.-based medical device manufacturer sought to improve its ability to make data-driven business decisions associated with new product launches and adoption.

This required correlation of data from CRM systems, ERP systems, and industry analytics to assess product adoption and generate insights to guide sales and marketing efforts.

The challenge was that the company did not have the requisite expertise and resources in data science and visualization to generate such insights.

Our Approach

The company turned to GlobalLogic to develop the data lake and data visualization solution they needed. The platform enabled the client to run multiple types of analytics for tracking business needs.

The data lake was designed to support structured and unstructured data, and GlobalLogic constructed custom data sets that eased integrations with ML and AI systems. The product also allowed tracing business choices, tracking different KPI metrics, and analyzing data to

anticipate solutions and ideas.

Benefits

The client benefited from gaining an **extensible data analytics platform** that enables business users to measure and track product success metrics.

Reports are provided daily as data sets are received from Tableau within 40 minutes, and the solution **keeps data up to date without any latency** and with exceptional performance.

The solution further allows for **dashboard creation and the visualization of big data processing**, with real-time analytics to guide better decisions.

Clients are enabled to unleash the true potential of their data with comprehensive report visualizations driven by a **detailed and elaborate customized data process** that includes slicing, sorting, filtering, and drilling down and through.

About GlobalLogic

With more than 20 years of experience in regulated software product development and engineering services, GlobalLogic helps some of the world's leading Medical Technology, Medical Devices, Pharma, and Life Sciences organizations create world-class digital patient experiences, accelerate new product development, and capture new revenue streams.

GlobalLogic[®]
A Hitachi Group Company

20+ years industry experience

2300+ industry-dedicated engineers

300+ new products

90+ clients

To learn more or speak with one of our experts, please reach out to info@globallogic.com.



We are on a two-decade-young journey and we're proud of our growth and the milestones we have achieved. A startup to a Hitachi group company, our product engineering story is unique. Thanks to our people who have been our companions and growth drivers in this amazing journey.

'We are GlobalLogic' is a spectacular showcase of what we do, what we represent, and our capabilities as a global leader in product engineering services.

[Learn More: Visit Our Website](#)