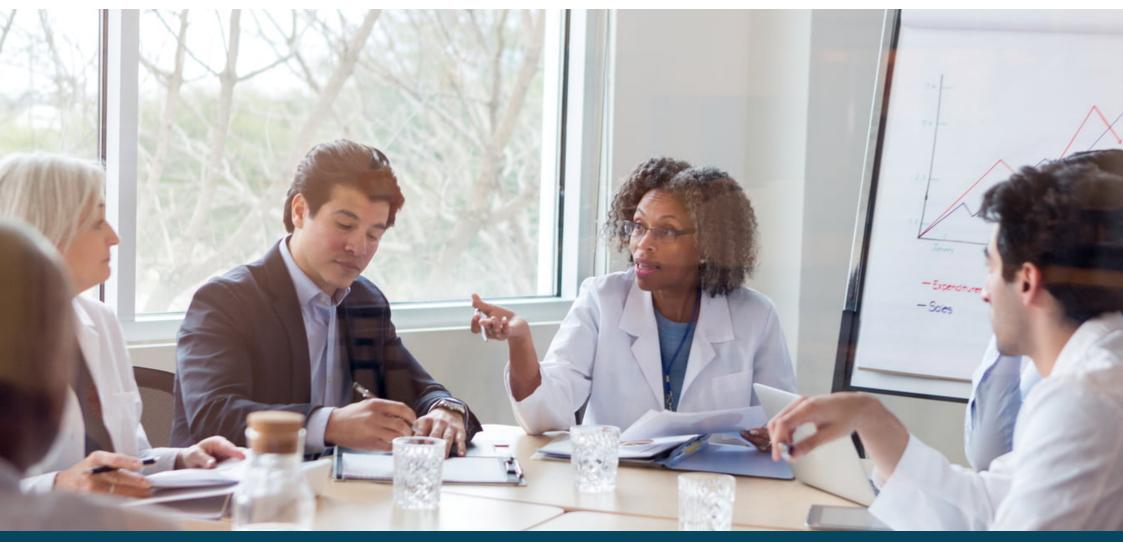# GlobalLogic Solutions: Healthcare Data Intelligence and Diagnostics (HDID)

Partnering with a Leader in Regulated Medical Software Product Development

Introduction

GlobalLogic partners with some of the world's leading medical devices, medical technology, clinical research, and in vitro diagnostics (IVD) organizations to create world-class patient, caregiver, and clinician experiences.

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Our services enable these organizations to get products to market faster and transform healthcare through technology and innovation.

In this highly regulated industry, it is essential to work with a partner whose software engineering skills come intertwined with a deep quality culture and a strong working knowledge of the governing ISO/IEC standards.

From embedded systems and software as a medical device (SaMD) to clinical study platforms, internet of medical things (IoMT), and telehealth, GlobalLogic has helped the world's leading medical technology, CROs, and diagnostics organizations design, develop, and deliver world-class digital patient experiences for over 20 years.
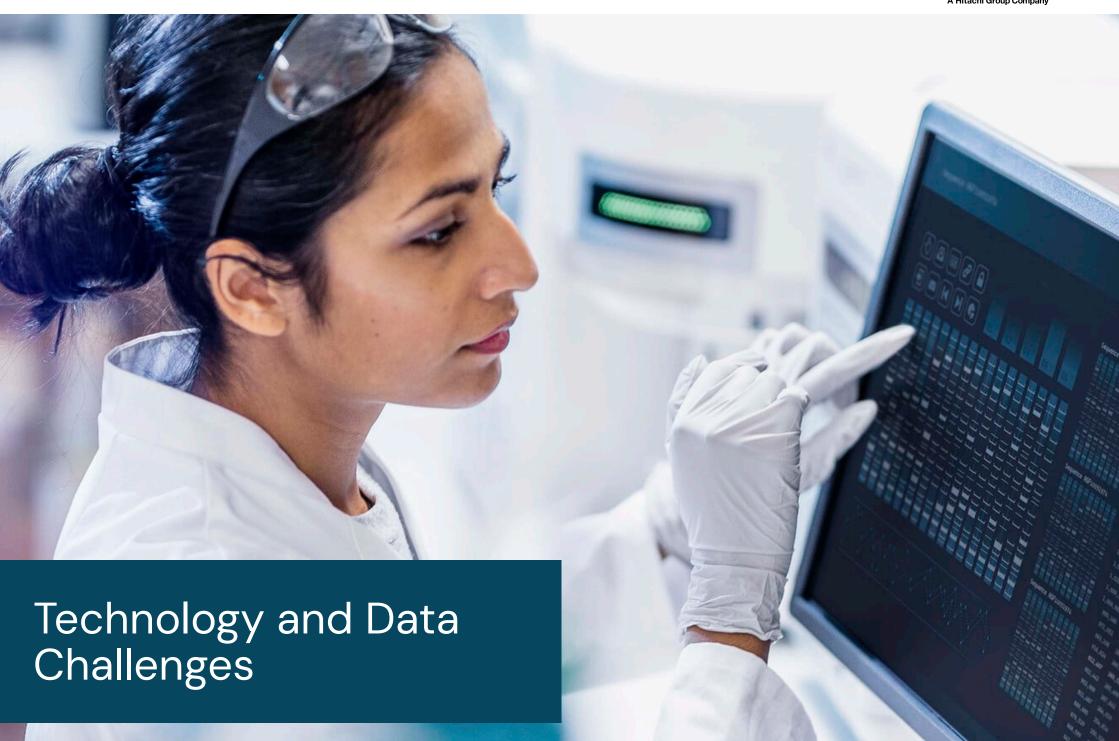
In this solution guide, we explore the key areas where GlobalLogic can help you develop medical device/IVD software, digital health platforms, healthcare information exchanges, IoMT and smart healthcare systems that facilitate telehealth, and health data intelligence and diagnostics (HDID).

At GlobalLogic, we believe that when you create high-quality medical devices that are easy to use, it increases your business value as well as your value to your clients.

We've learned that whenever you can create patient value in the marketplace, good things will follow.

Given the technical sophistication of today's environments, the best way to achieve that end is to increase your creation potential and innovation by working with a knowledgeable, scalable, and trusted technology partner.
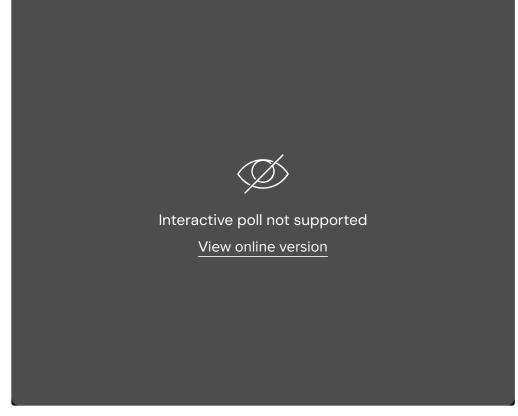
Technology and Data Challenges

Extracting value from data sources across an enterprise is imperative. But many businesses struggle with **the challenges of big data architecture**, including technology stacks, hosting capabilities, and data governance challenges, such as:

- Data rights
- Data licensing
- Privacy
- Protected health information (PHI)
- Access controls

It's a lot to process, particularly if you're building and managing your own enterprise data platform.

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Consulting and
Advisory Services

GlobalLogic offers specialized consulting and advisory services that provide guidance in key areas and help GlobalLogic clients reduce their overall programmatic and technical risks. This allows our clients to minimize false project starts or substantial rework that could affect time to market or financial performance.

GlobalLogic has incorporated our organizational learnings and created specialized offerings to help provide guidance to our clients, including:

- Healthcare trends, ISO 62304, and SDLC best practices
- CI/CD DevOps, test automation, RunOPs, Agile for medical devices
- Digital transformation strategy for known healthcare market players
- Technology platform selection and strategy for healthcare startups
- Global security standards, PHI protection, and product security

"

The GlobalLogic solution helped our data research team build machine learning models based on comprehensive data sets that are collected across clinical and digital data sources."

Recent Client

How GlobalLogic Can Help

GlobalLogic brings extensive experience in building analytics platforms that have helped organizations realize their data sets' full potential in driving therapy compliance, product adoption, clinical research, and developing new service offerings.

We build scientific platforms for the following applications:

- Data trending for population health
- Disease diagnostic applications
- Clinical trial data
- Enterprise data warehousing

These sophisticated software development projects also include AI/ML capabilities using various UI/UX designs that help visualize data.

GlobalLogic uses data platform accelerators to set up end-to-end flexible data platforms more quickly with pluggable modular components. This lets you turn data into knowledgeable and actionable insights faster by gathering, transforming, and enriching data from across your enterprise.

Our Key Differentiators

We excel at helping healthcare organizations create world-class digital customer experiences and transform their business operations.

Deep Medical Expertise

- 20+ years of experience developing regulated FDA (I, II & III products) with FDA clearance and CE mark
- 2300+ engineers dedicated to healthcare and life sciences
- 300+ new products
- ISO 13485 certified QMS, IEC 62304 compliant SDLC

Processes for Healthcare

- Delivery processes tailored to healthcare domain
- Working within our client's QMS or using GlobalLogic's 13485 compliance QMS
- Setting up internal and external audit processes
- Building policies on security and data privacy
- Establishing healthcare and ISO/IEC standards training programs for staff assigned to these projects

Innovative Technologies

- Infrastructure-, platform-, or software-as-a-service (IaaS, PaaS, SaaS) implementations using public, private, and hybrid deployment models
- Cross-platform development
- AI/ML, big data
- Microservices architecture, DevOps, cloud operations, and management tools
- Embedded systems, Bluetooth Low Energy (BLE), Wi-Fi, near-field communication (NFC) integration
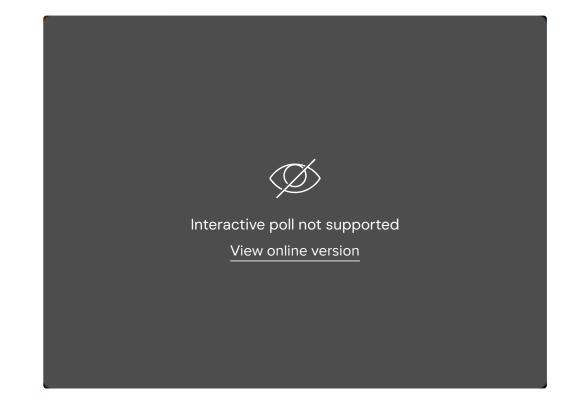
Conclusion

With 20+ years of experience in regulated software product development and engineering services, GlobalLogic has become a trusted partner in the fields of medical devices, medical technology, clinical research, and diagnostics.

We develop Class I, II, and III products in accordance with ISO 13485 certified QMS and IEC 62304 compliant SDLC.

Why choose GlobalLogic as your software engineering partner?

- Our deep working knowledge of ISO governing standards enables us to work with many different companies' QMS and SDLC.
- Our experience in using a variety of tools, software languages, cloud environments, and infrastructure to seamlessly integrate and collaborate with your in-house engineering team.
- Our experience in the build, design, implementation, and testing of systems per agreed-upon product definitions and specifications.

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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

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To learn more, or to 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