

**MEDICAL
DEVICES
ENGINEERING**

Infosys
cobalt



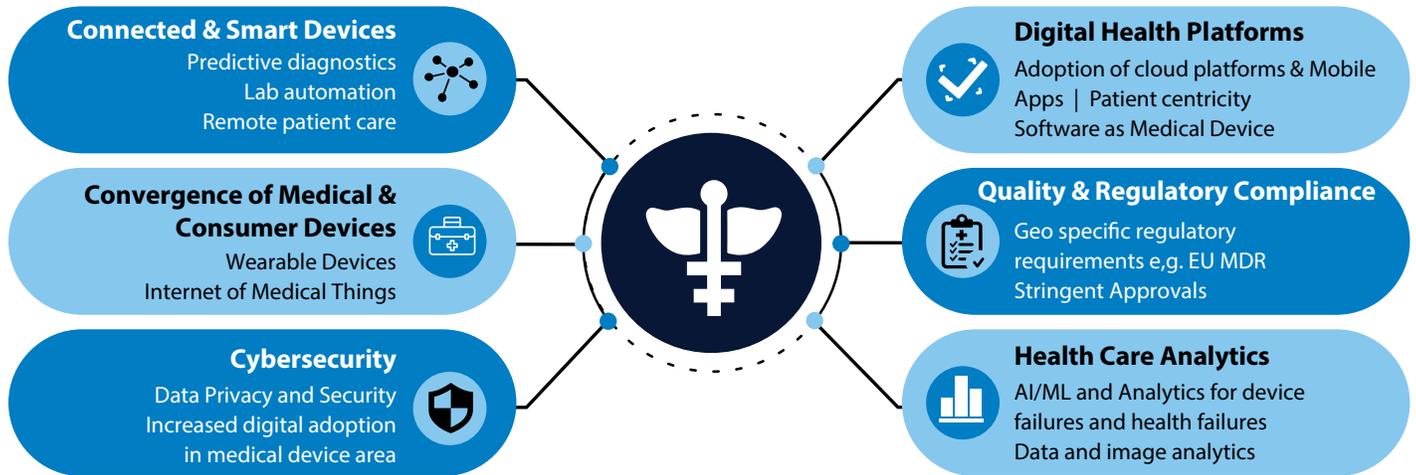
 **Kaleidoscope[®]
Innovation**
an Infosys company

Infosys[®]
Navigate your next

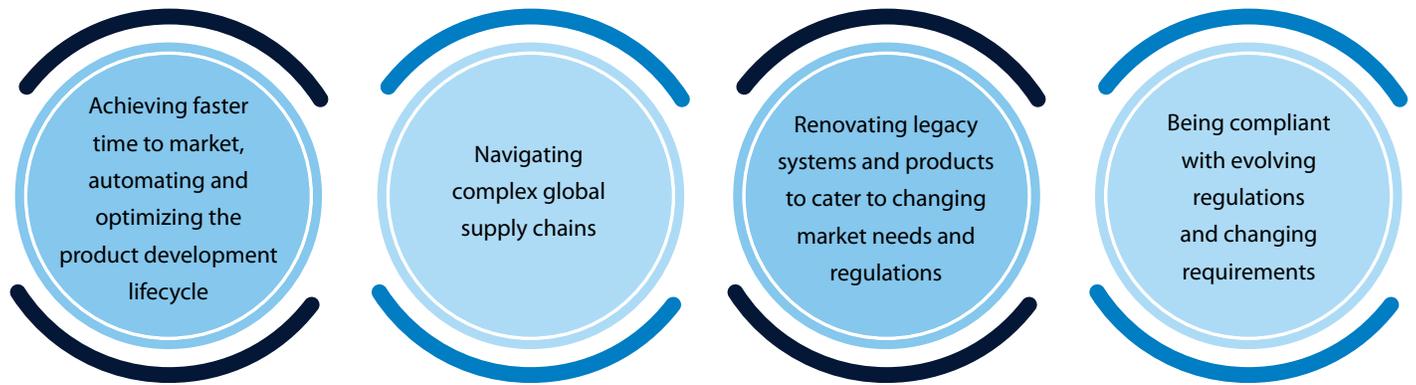
Overview, Trends and Challenges

The Life Sciences industry is undergoing a multi-faceted transformation due to continuous advancements in the hyper-personalization of medical procedures and treatments, new generation manufacturing methods, connected operations and increased use of advanced technologies like artificial intelligence (AI) and machine learning (ML).

Life Science and Digital Health Industry Trends



Some of the major challenges for this industry are



Further, the COVID-19 pandemic added new challenges to the industry. It prompted new equipment with user-friendly features for patients and doctors, remote monitoring solutions with integrated and interconnected data management solutions for patient care, remote monitoring of devices and laboratory equipment for higher up-time and predictive maintenance,

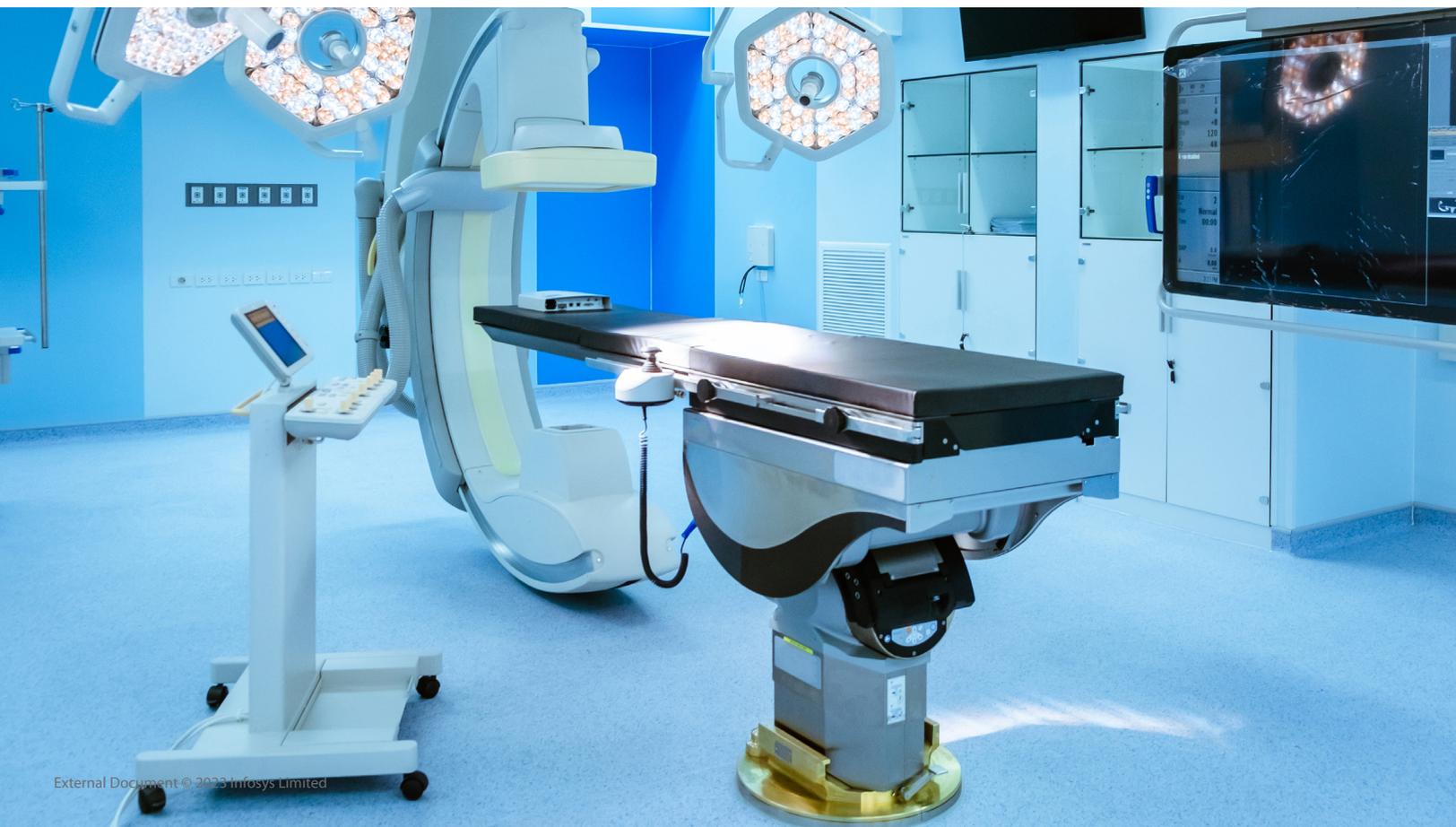
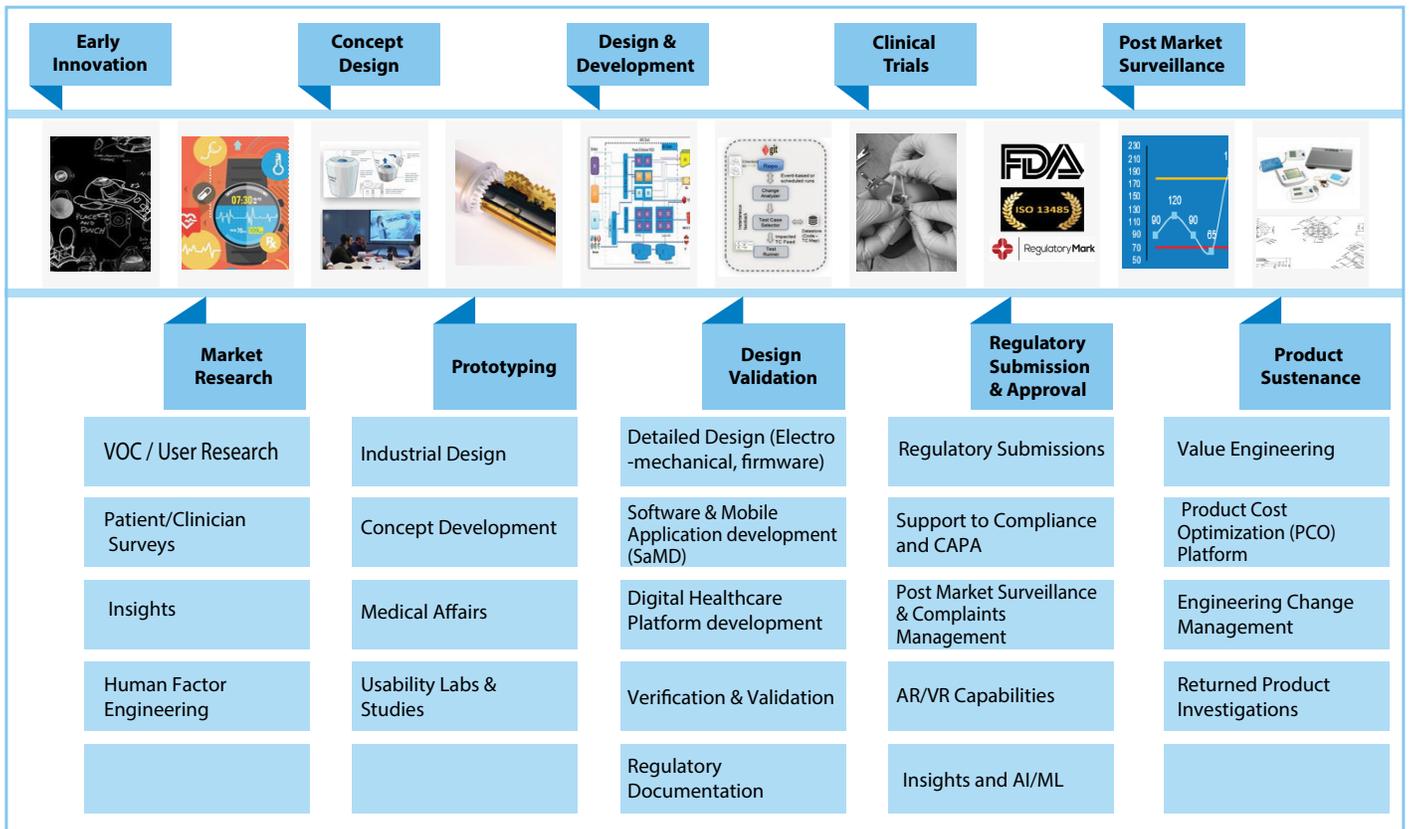
and cost-efficient equipment owing to huge demand. Such advances need to be made quickly, necessitating faster product development.

With deep expertise and experience in the Life Sciences domain, Infosys Engineering Services understands these challenges and endeavors to Navigate the Next for our customers.

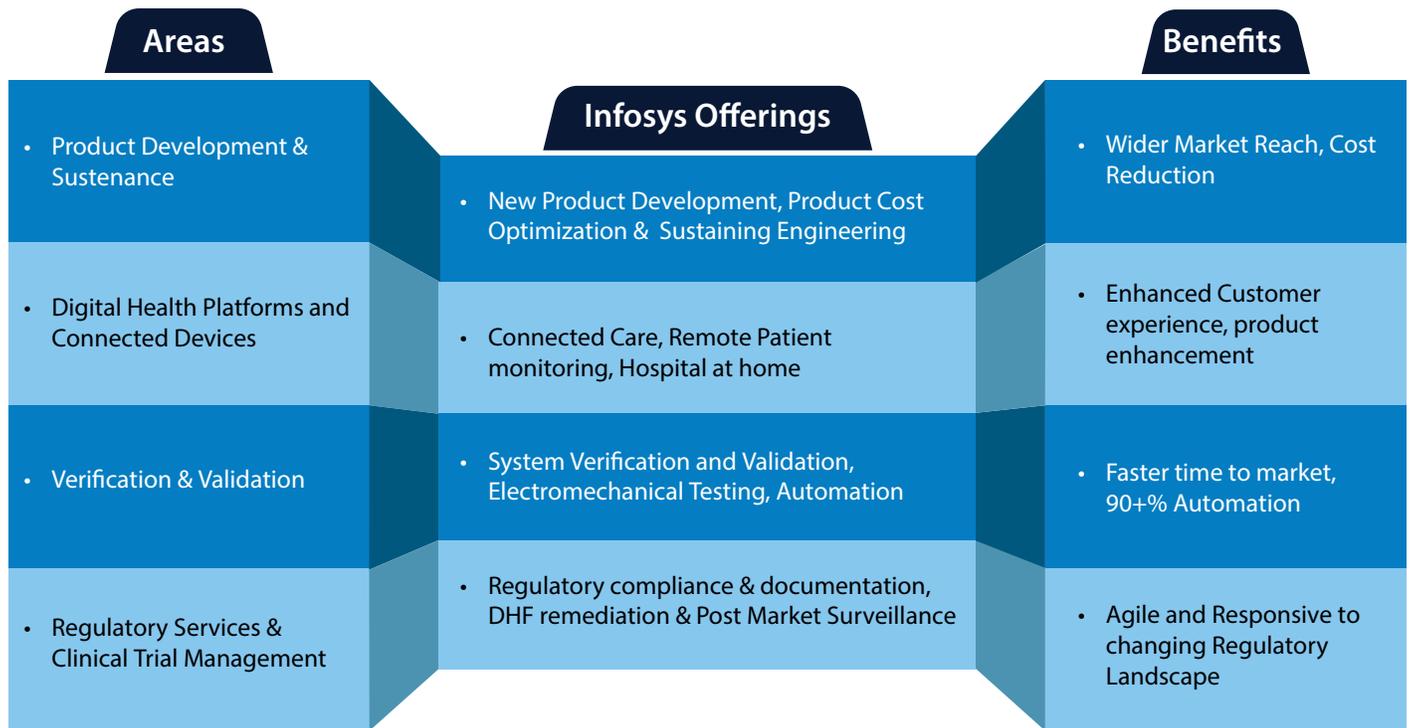


Our Service Offerings

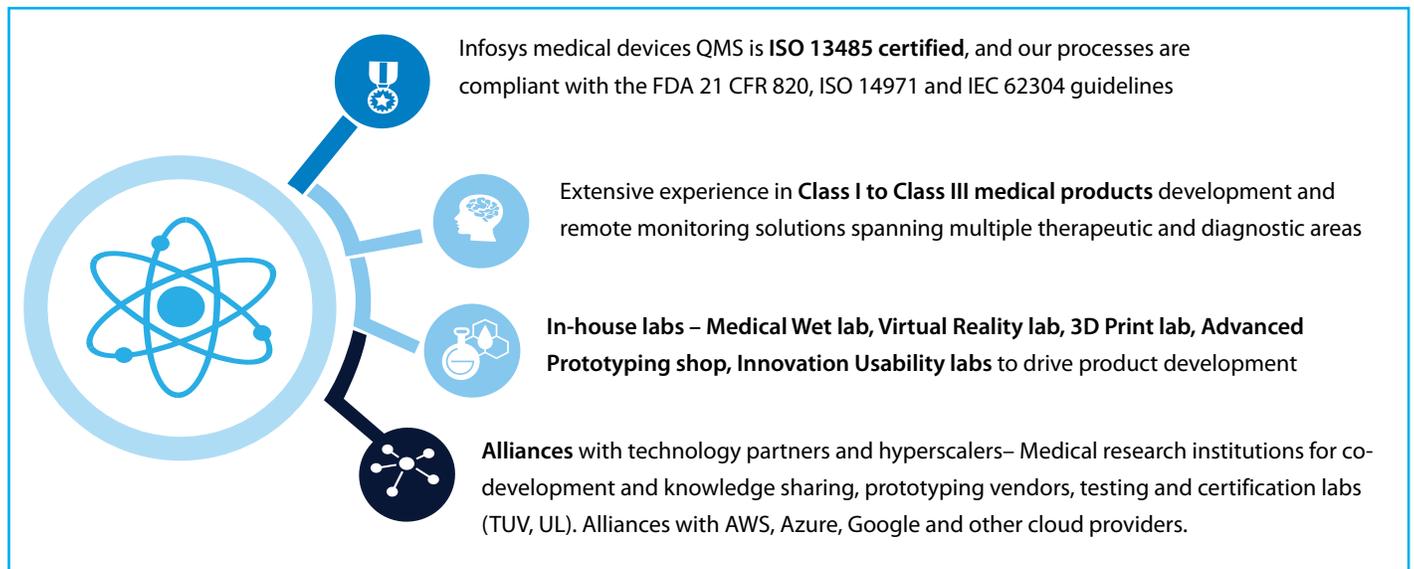
We provide **end-to-end** services for medical devices, products and platforms, from concept to aftermarket support, encompassing mechanical, electronic, electrical, embedded and software engineering. Our multi-domain, multi-functional team of experts brings together the best of industry practices and processes and their experience to create solutions best suited for each client.



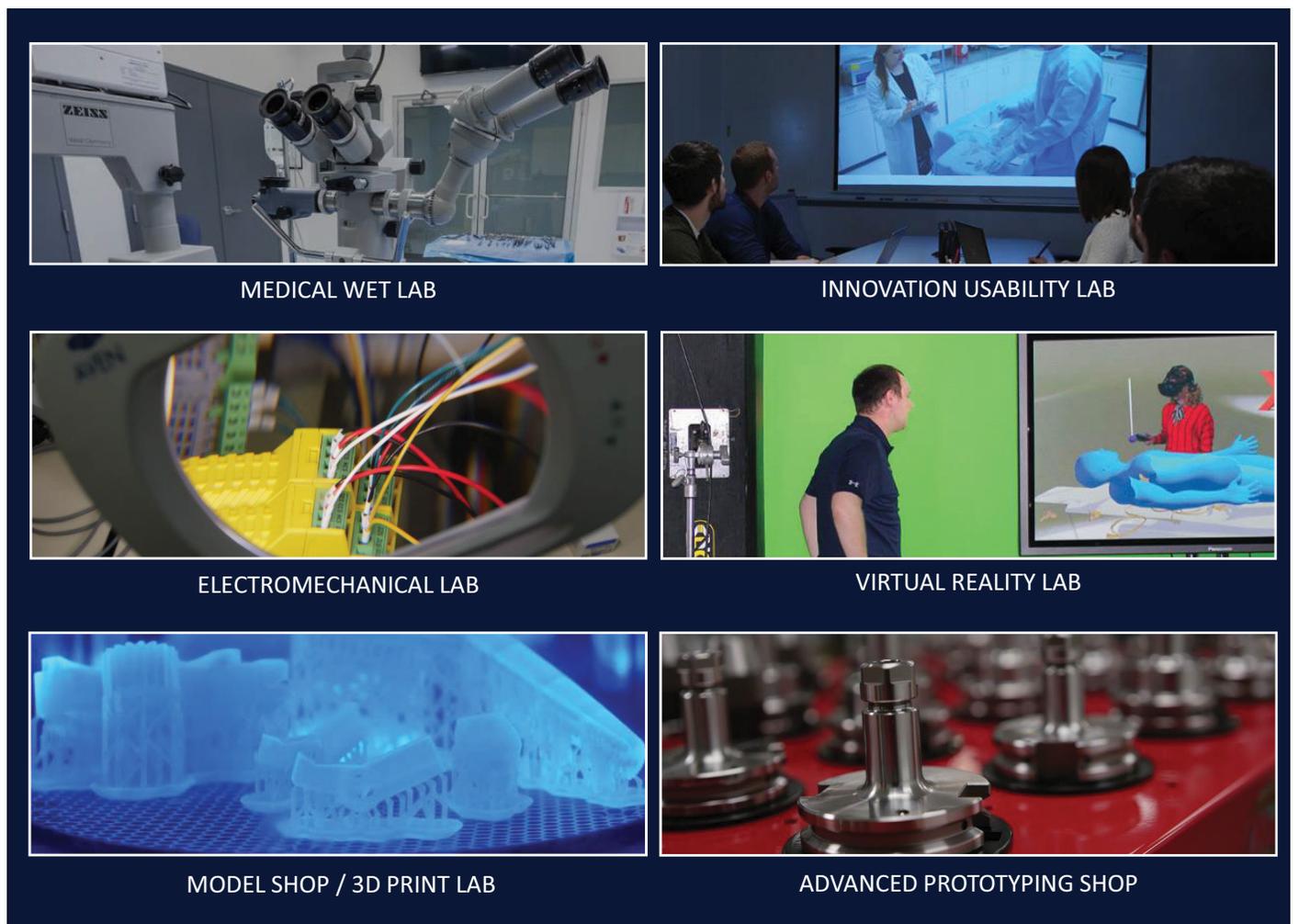
Kaleidoscope Innovation, a wholly owned subsidiary of Infosys, headquartered in Cincinnati, Ohio, brings deep domain knowledge and understanding of the highly regulated Life Science industry, extensive experience in user research, insights and design, an understanding of clinical environments, strong product development capabilities across therapeutic areas, addressing human factors engineering, product design, UI/UX design, development and XR visualization.



Infosys Value Proposition



State-of-the-Art Labs



Representative Successful Engagements

Infosys has partnered with many medical device clients to conceptualize, design, prototype, develop, verify, and validate end-to-end medical devices and systems associated with regulatory documentation and support post-market activities. We also assist our clients in sustaining legacy products through our sustenance engineering and remediation offerings.

iOS-based clinic Programmer development for Cardiac Loop Recorder



Class II Medical Application developed in a multi-tier mode with UI based on Hybrid framework, along with business layer in native iOS components and C/C++ based modules for telemetry

Faster time to market for the application within a period of 12 months
Reduced cost by providing a COTS mobile based medical device solution instead of a proprietary hardware-based solution

Developed end-to-end diagnostic imaging system for emerging markets



Complete Product design, Hardware, Firmware and software development. Prototype build/Assembly Reliability, durability, DVT testing, Documentation, Certification and Mass production

Optimized Product cost by 35%
Reduction in Time To Market by 6 Months

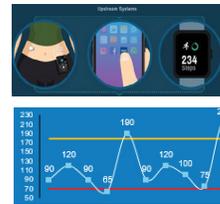
Develop a patient-centric digital solution SaMD for Diabetes Care Management



Patient centric mobile apps and cloud platform for coaches to communicate with and track diabetic patients. Wireless Data Collection, GUI development, iOS/Android Mobile Apps, Data transfer to Cloud

Automated reminders and collection of readings from glucometer increased compliance.
Increased patient engagement

Self Care Management using Machine Learning



SaMD Solution development for correlating data from multiple streams and provide useful insights for patient and HCP. Patient data security and SaMD Regulatory Compliance
Pluggable into any existing patient engagement solution

Meaningful insights helping patients manage their daily decisions
65% of Lows avoided with predictive alerts
44% of Highs avoided with predictive alerts

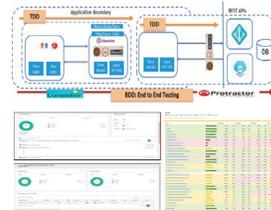
Generate regulatory strategies and work with regulatory agencies to meet ambitious objectives



Designed most efficient strategy for a novel product with an uncertain regulatory pathway, uncertain regulatory pathway
Conducted Q Submission meetings leading to novel clinical evaluation approach.
Implemented Quality Management System

Successful 510(k) submission supported with clinical evidence
Expanded support to include EU MDR transition implementation

Test Automation Framework for an IVD domain customer



Infosys Cobalt is a set of services, solutions and platforms for enterprises to accelerate their cloud journey. It offers over 35,000 cloud assets, over 300 industry cloud solution blueprints and a thriving community of cloud business and technology practitioners to drive increased business value. With Infosys Cobalt, regulatory and security compliance, along with technical and financial governance comes baked into every solution delivered.

For more information, contact askus@infosys.com



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