



DIAGNOSTICS

STATE OF THE MARKET

In an increasingly competitive market, the diagnostics industry is exploring strategies that can reduce errors, improve patient safety, and support better patient outcomes. There has been a marked shift from treatment to prediction, preemption, prevention and diagnosis—and the emerging patient-centric model demands both clinical effectiveness and economic viability. Seven out of ten deaths in the US are attributed to chronic diseases—a fact which can be addressed through preventive diagnostics.¹

Demand-side market forces are fueling the need for an ecosystem of connected medical devices—critical for supporting an ageing population, which is projected to increase from 901 million to 1.4 billion by 2030 worldwide.² Consequently, medical device manufacturers and their customers are required to implement design standards that incorporate patient-centric factors and usability testing.

SERVICE OFFERINGS

L&T Technology Services (LTTS) delivers end-to-end product development solutions through concept design, value analysis and engineering, design optimization, manufacturing engineering services and advanced Internet of Things (IoT) implementation. Our diagnostics suite encompasses radiology measurement packages, testing services, and image processing requirements. Our robust partnership ecosystem includes leading players in the testing market (TÜV, UL, BiSS, ETDC and CPRI), and key entities in radiology and imaging (PSG Hospital, JSS College and RZ).

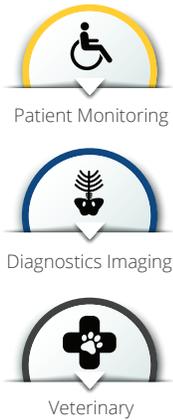
Footnotes:

1.CDC, The Power of Prevention Chronic Disease (2009), <http://www.cdc.gov/chronicdisease/pdf/2009-power-of-prevention.pdf> (Accessed on 10 Nov 2016)

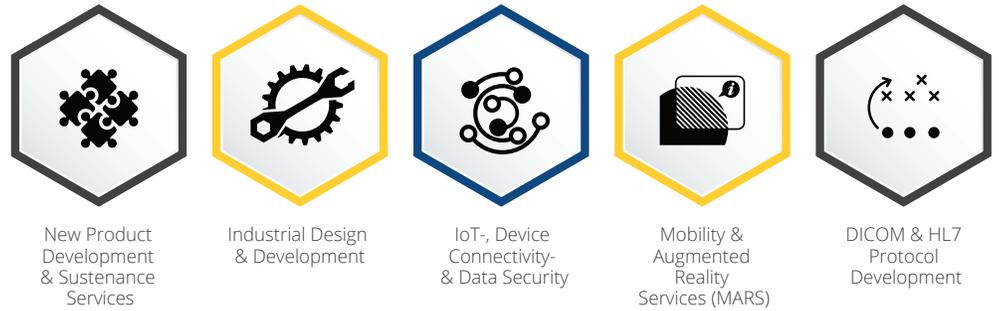
2.UN, World Population Aging (2015), http://www.un.org/en/development/desa/population/publications/pdf/ageing/WPA2015_Report.pdf (Accessed on 10 Nov 2016)

KEY SEGMENTS & SERVICE OFFERINGS

KEY SEGMENTS



SERVICE OFFERINGS



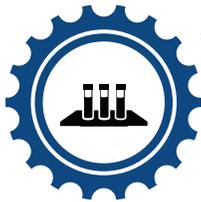
KEY DIFFERENTIATORS



Over 25 years of experience in the medical diagnostic field



Partnership with top 3 enterprises in the medical diagnostics segment, external labs, research institutions, and opinion leaders



Robust lab infrastructure with pre compliance test facilities and COE for medical imaging



Mature consulting practice with the ability to convert vaguely defined requirements into fully developed products



Coauthored more than 10 patents in the medical diagnostics space

BENEFITS

- Achieve statutory compliance by leveraging our design documentation, traceability, verification and validation (clinical trials) reports, device classification and premarket notification services
- Ensure data security by executing rigorous deep penetration tests and source code analysis in line with our secure coding guidelines and Open Web Application Security Project (OWASP) coding guidelines
- Enhance device usability by implementing user-centric design methodology, and intuitive user interface (UI) and touch screen technology

CASES



Designed an ultrasound scanner to improve end user experience, while delivering high quality images. The client benefited from 20% productivity improvement with enhanced workflow management.



Designed a patient monitor, factory-configured as a basic variant, and capable of supporting additional parameters and options. The client benefited from in-house testing.



Developed a tool that collects and parses logs for recording the stability and performance of medical applications. The client's comprehensive gathering and analysis requirements were met.

For more information visit us at www.Inttechservices.com

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About L&T Technology Services

L&T Technology Services Limited is a subsidiary of Larsen & Toubro Limited with a focus in the engineering services space, partnering with over 50 Fortune 500 companies. A leading pure-play Engineering, Research and Development services company, we offer design and development solutions through the entire product development chain, across various industries such as Industrial Products, Medical Devices, Transportation, Telecom & Hi-tech, and the Process Industry. We also offer solutions in the areas of Mechanical Engineering Services, Embedded Systems & Applications, Engineering Process Services, Product Lifecycle Management, Engineering Analytics, Power Electronics, Machine-to-Machine (M2M), and the Internet-of-Things (IoT).