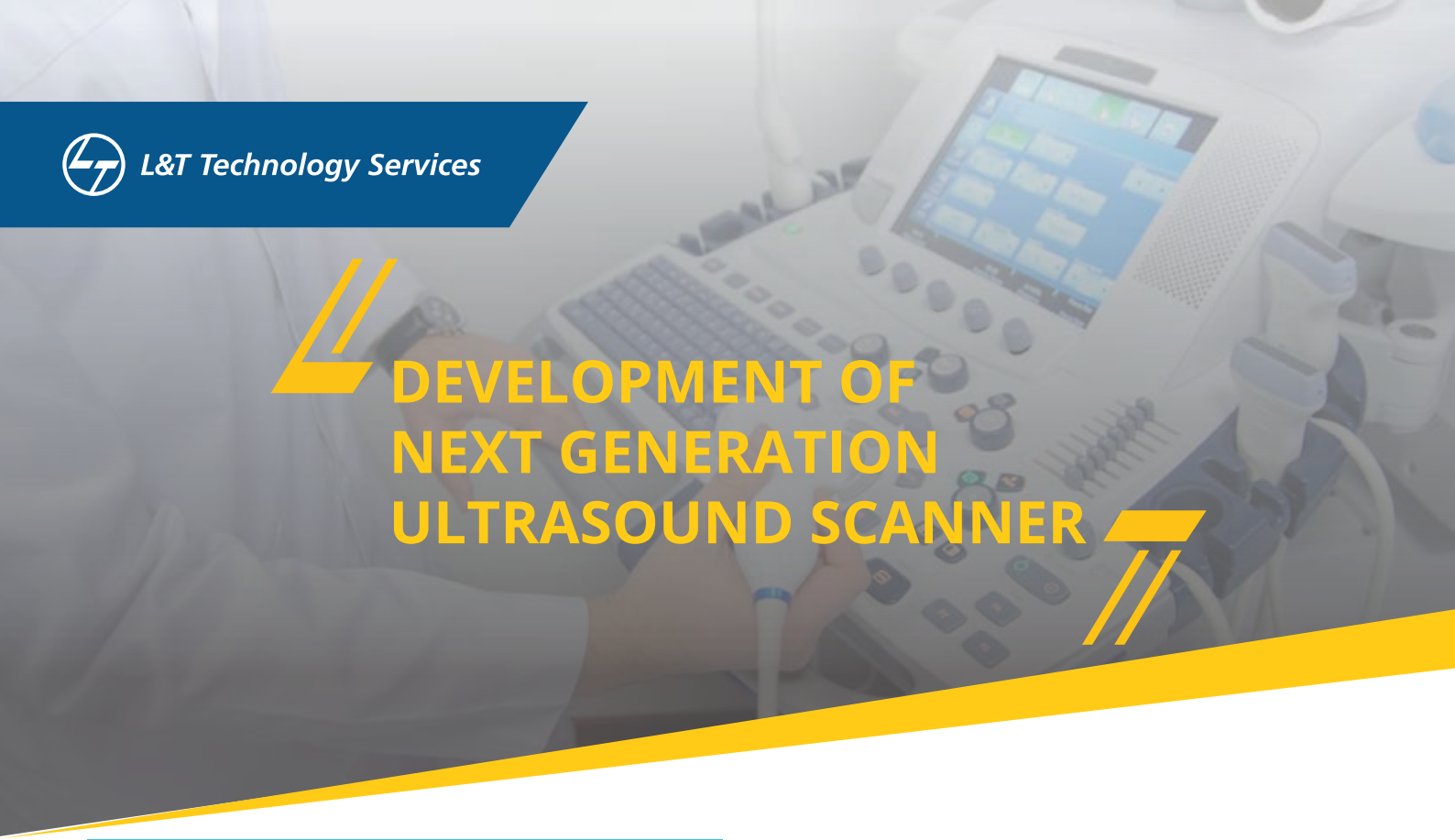
L&T Technology Services

DEVELOPMENT OF NEXT GENERATION ULTRASOUND SCANNER



L&T TECHNOLOGY SERVICES HELPS MARKET LEADER IN ULTRASOUND BASED PRODUCTS BASED IN EUROPE TO DESIGN AND DEVELOP NEXT GENERATION ULTRASOUND SCANNER

Engagement	Technology	Ownership	Outcome
Manufacturing, invention of medical devices	AutoCad Inventor 2011, Solidworks 2010, Cisco Webex	50%	Product ready to be launched.

THE CLIENT & INDUSTRY

Our client is a market leader in surgical ultrasound products based out of Europe.

THE CHALLENGES

- Experience in Research and development activities for next generation ultrasound scanners.
- Capabilities in Mechanical engineering design service for new product design and development of next generation ultrasound scanners..

DELIVERY APPROACH

- Offshore – mechanical product development support
- On Site visits for major releases and technical discussions
- Regular interaction with clients through video conferencing
- Interaction with electronic hardware team on clients side
- Regular interaction with manufacturing team and prototyping vendors

OUR SOLUTION

- Mechanical Product Development
- Requirement gathering
- Technical document
- Industrial design support
- Concept designs
- Proof of concept
- Engineering detailing
- CAE analysis
- Designs to address thermal concerns
- Prototyping
- Testing of mechanisms
- Simulated thermal test
- Preliminary compliance testing
- 3D models, 2D drawing and tolerance stack release for tooling

The following tools suite was used:

- 3D tools: AutoCad Inventor2011, Solidworks2010
- Analysis: ANSYS Icepak
- Documentation tool: Microsoft Office
- Communication tool: Cisco Webex

BENEFITS DELIVERED

Three prototypes were made and presented to the client. The mechanical design has been finalized and released for tooling with the product launch expected in April, 2014.

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).