World-leading tire manufacturer becomes future-ready using 3D digitization of its complete tire manufacturing plant; reduces cost of a typical installation, commissioning and modification cycle by 75%
The scope of the engagement included the following:

- Assessing and compiling the complete requirement of client
- Estimating the feasibility of capturing 3D scanning data for the existing plants’ layout
- Estimating the resource, cost and time required to accomplish the requirement
- Planning a roadmap for timely deliverable of the quality data
- Executing the project as per the approved plan
- Submitting the outcomes after due quality check and reviews

The following suite of tools & technologies was used:

- Scanning and Registration:
  - Hardware: “FARO Focus3D” Instrument
  - Software: “Faro SCENE” & “Autodesk ReCap” for point cloud data registration
- 3D Modeling: Autodesk Revit
- 2D CAD drawing: Plan, section, elevation details, etc. generated directly from 3D model

**BUSINESS IMPACT**

The client’s business was impacted as follows:

- Enabled the client to globally roll out this project
- Worldwide availability of digital documents
- Enabled suitability checks and therefore optimization of execution time for future expansion or relocation of plants
- Cost of a typical installation, commissioning and modification cycle reduced by 75%

**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).