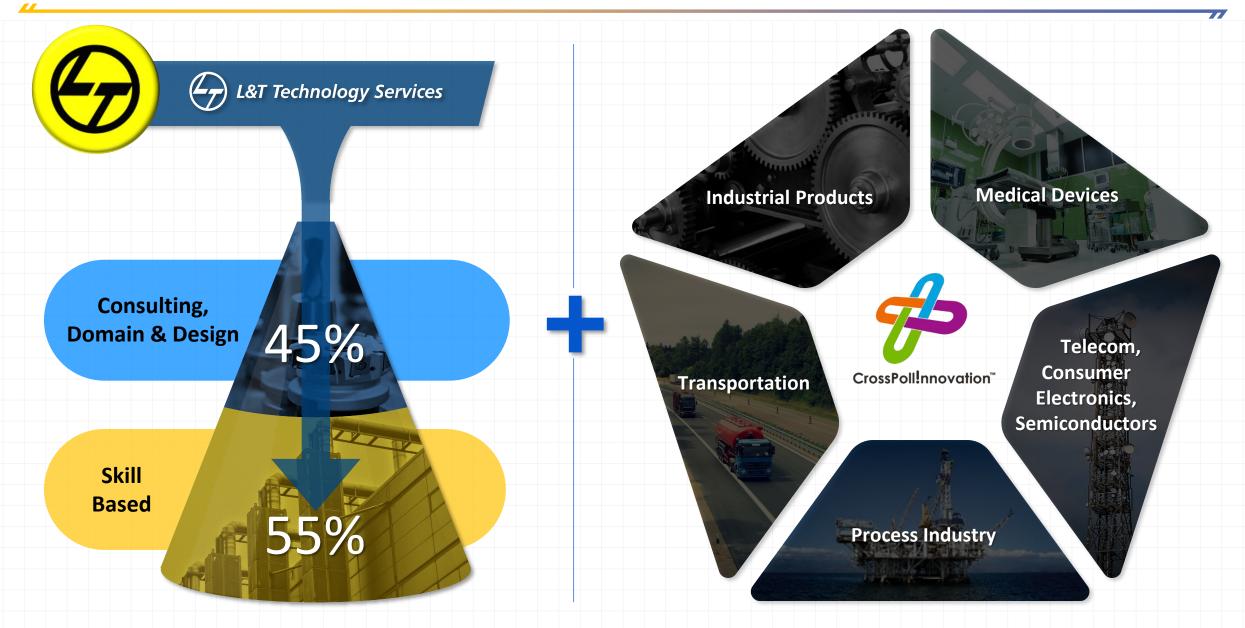
ENGINEERING THE CHANGE 7



L&T Technology Services – At a glance



Difficult to replicate our differentiation



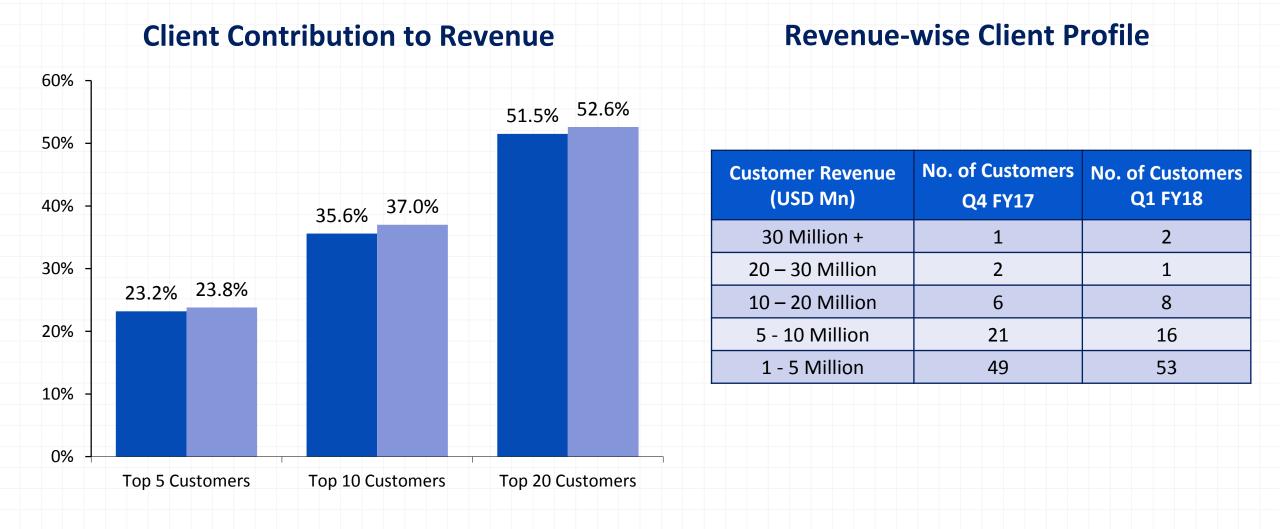
Our clientele continues to be our prized asset...

8 of Top 10 Transportation R&D spenders 7 of Top 10 Telecom Hi-Tech R&D spenders

48 OF TOP 100 R&D SPENDERS

2 of Top 5 Medical R&D Spenders 8 of Top 10 Industrial and Process R&D spenders

Customer Base



% of Consolidated Revenue for Q4 FY17 % of Consolidated Revenue for Q1 FY18

Our Strategy



- T30 Program
- A3 -Hunting Adjacencies
- Large Deals based on Annuity business model

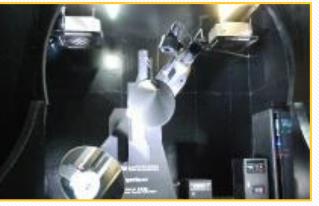
Acquisitions

Selective acquisitions in Product Software & New age technologies which cuts across domains

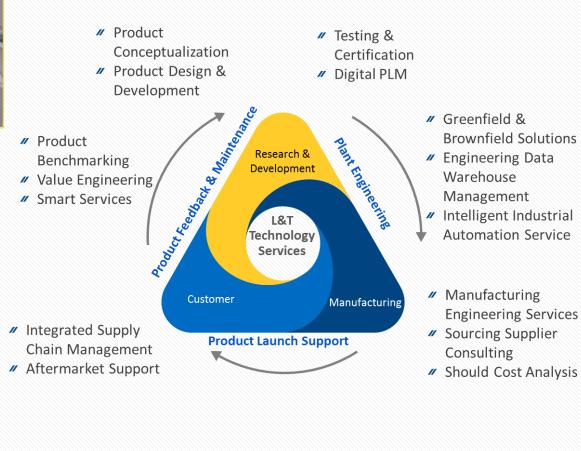
....supported by best in class infrastructure with in-depth capabilities



Lighting Lab



Optics Lab





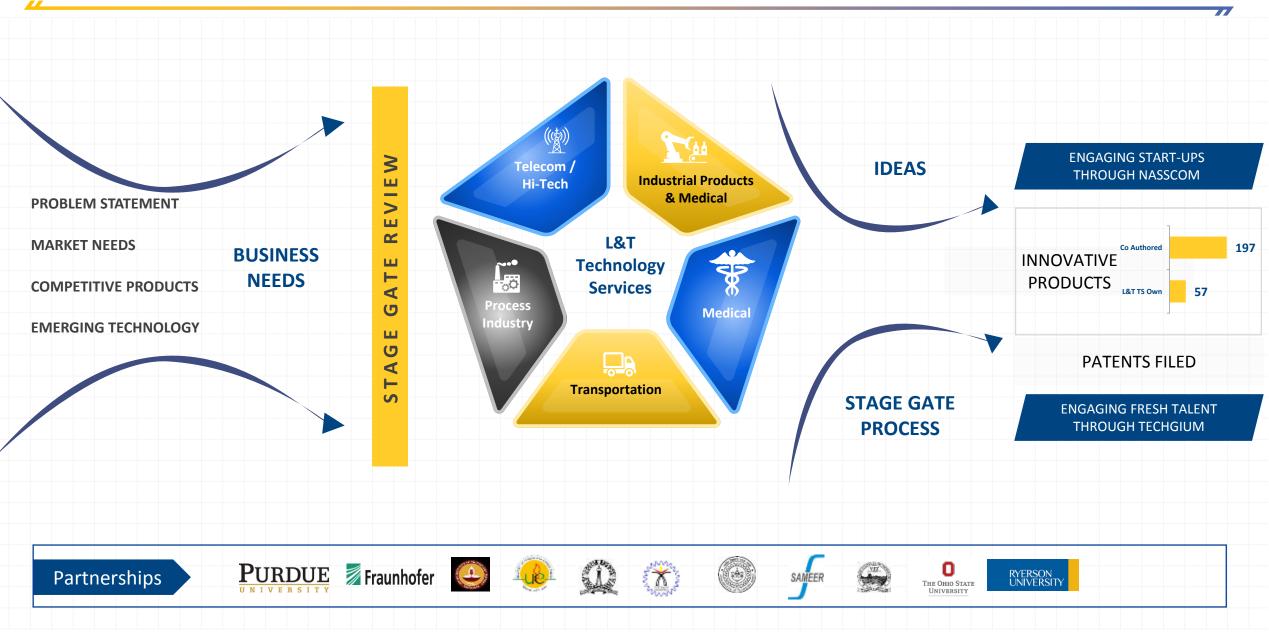
Medical Lab



Environmental Lab



We continue to be focused on driving innovation



Solution Frameworks

i-BEMS[™] Intelligent Buildings

Intelligent Building Energy Management System

- System of Systems
- Modular & Customizable System
- Advanced Analytics

i-BEMS PLATFORM HAS BEEN DEPLOYED IN WORLD'S SMARTEST CAMPUS IN ISRAEL

UBIQWeiseTM

IoT Platform

• Device Health Monitoring

Predictive Analytics

Data Aggregation

DEPLOYED SUCCESSFULLY FOR HVAC AND CONSTRUCTION MAJOR

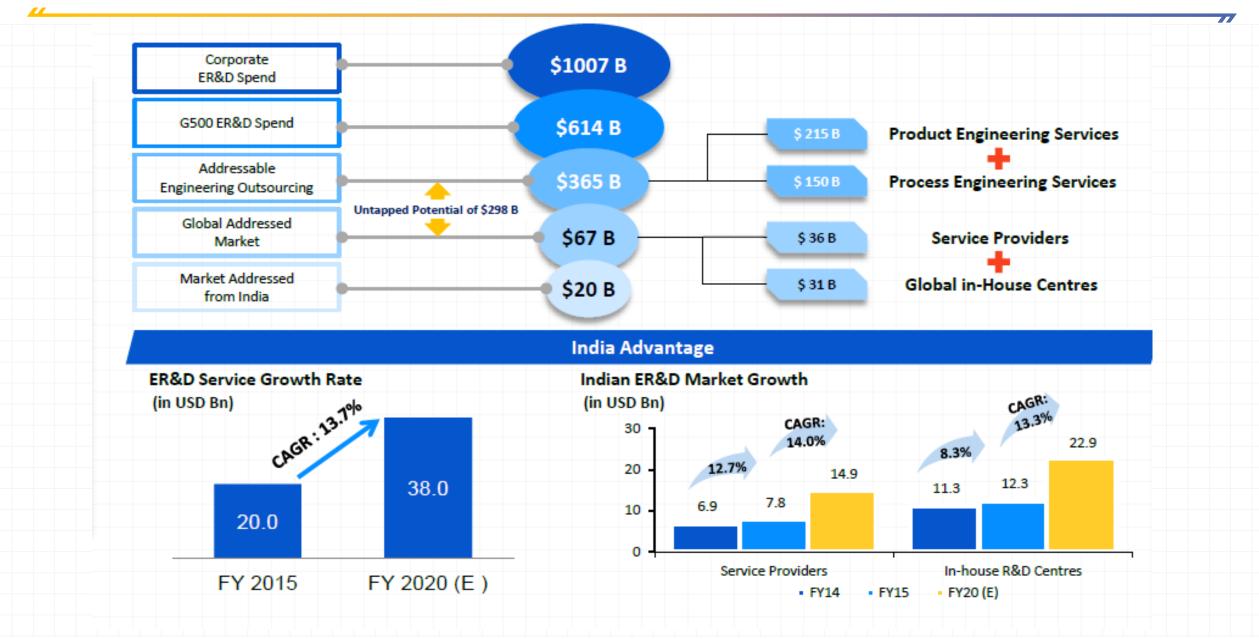
WAGES

Water, Air, Gas, Energy, Steam

- Monitoring Plant KPI
- Energy Monitoring & Metering
- Water Recycling & Reuse Engineering

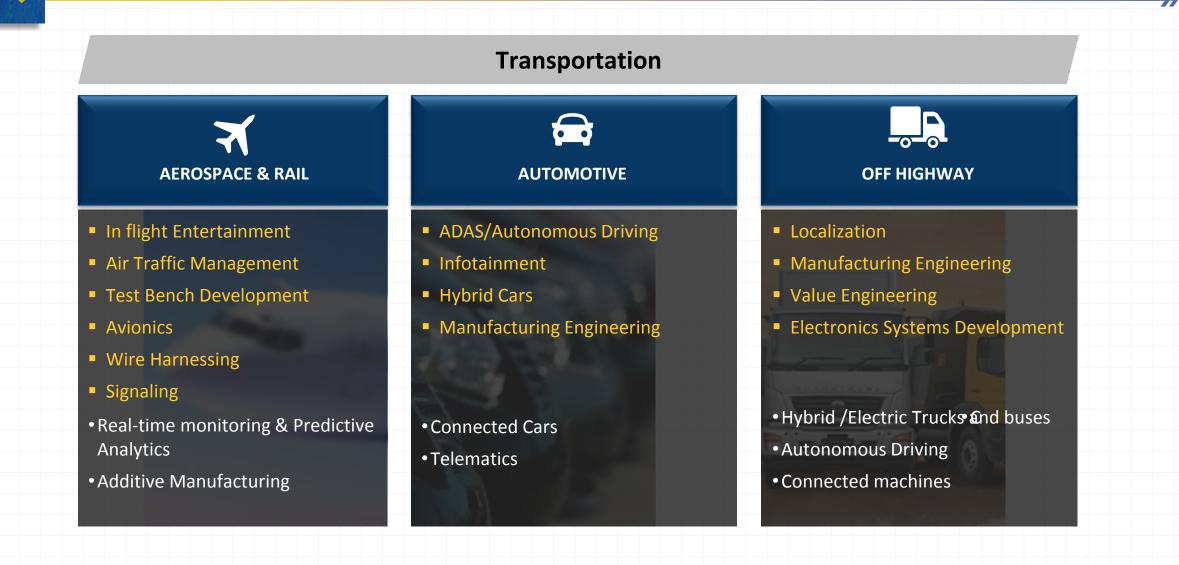
SUCCESSFULLY USED FOR FMCG MAJOR

Global Addressable Engineering Outsourcing Opportunity





Micro-Vertical Focus (1 of 3)



Legend: Bread & Butter | Next-Gen



Micro-Vertical Focus (2 of 3)

Industrial Products			Medical Devices & Healthcare			
BUILDING & HOME AUTOMATION	ELECTRICAL DRIVES & POWER	MACHINERY		PATIENT CARE	SURGICAL	
 Building Management Solutions Energy Efficient Lighting 	 Power Electronics Sustenance Engineering 	 IoT Cost takeout Programs Machine Learning Value Engineering 	 Diagnostics Imaging Manufacturing optimization 	 Cost Optimization Programs Engineering Analysis(CAE) 	 Product Design and Development Risk Management and Compliance Value Engineering 	
 Intelligent Mobility Solutions Imaging Algorithms 	 Real-time Monitoring & Analytics Energy efficient product development 	Artificial IntelligenceMachine VisionDigital Twin	 Data Analytics and Security Wearable's diagnostic applications 	 Real-time Connectivity and Integration Intelligent Patient Care 	 Robotics Reusable surgical solutions 	

Legend: Bread & Butter | Next-Gen

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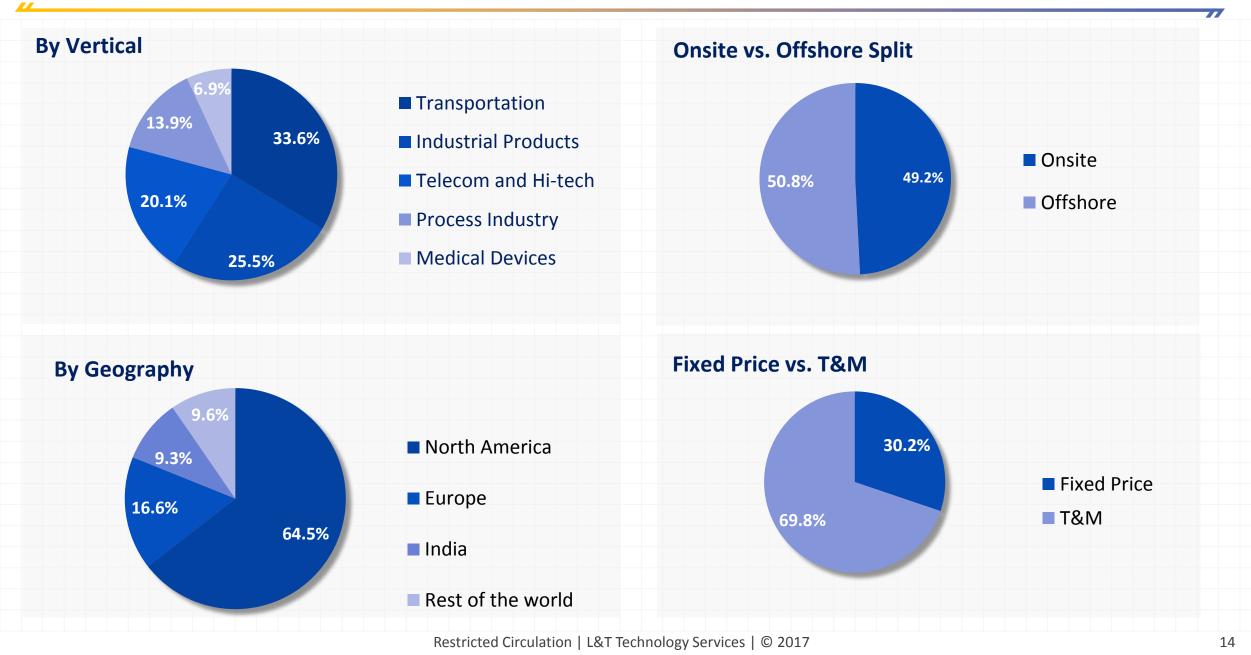
Micro-Vertical Focus (3 of 3)

Telecom and Hi-Tech				Process Industry		
SEMICONDUCTOR	MEDIA & ENTERTAINMENT		TELECOM & ISV	CPG	SPECIALITY CHEMICALS	OIL & GAS
 ASIC/SOC Design and Development Custom Engineering V&V Sensors/MEMS IoT Chipsets Development & Testing 	 STB Middleware Design & Development Cloud based Video Testing Dev-Ops Next-Gen Media Streaming 	 Middleware development, Integration and Testing Application development and Testing Smart Homes & Security AR/VR Technology 	 SDN/NFV and Network Management Product Design and Sustenance Software Development and Testing 5G Core and RAN Network Virtualization and Network Security Dev-Ops 	 Sustenance Engineering Brown field Development Plant Controls Mobility Solutions Integrated Manufacturing and Supply Chain 	 Green Field Development Sustenance Engineering Intelligent Industrial Automation Energy Audit & Energy Management Services 	 Asset Management Solutions Discipline Engineering Digital Engineering Data Analytics and Interpretation

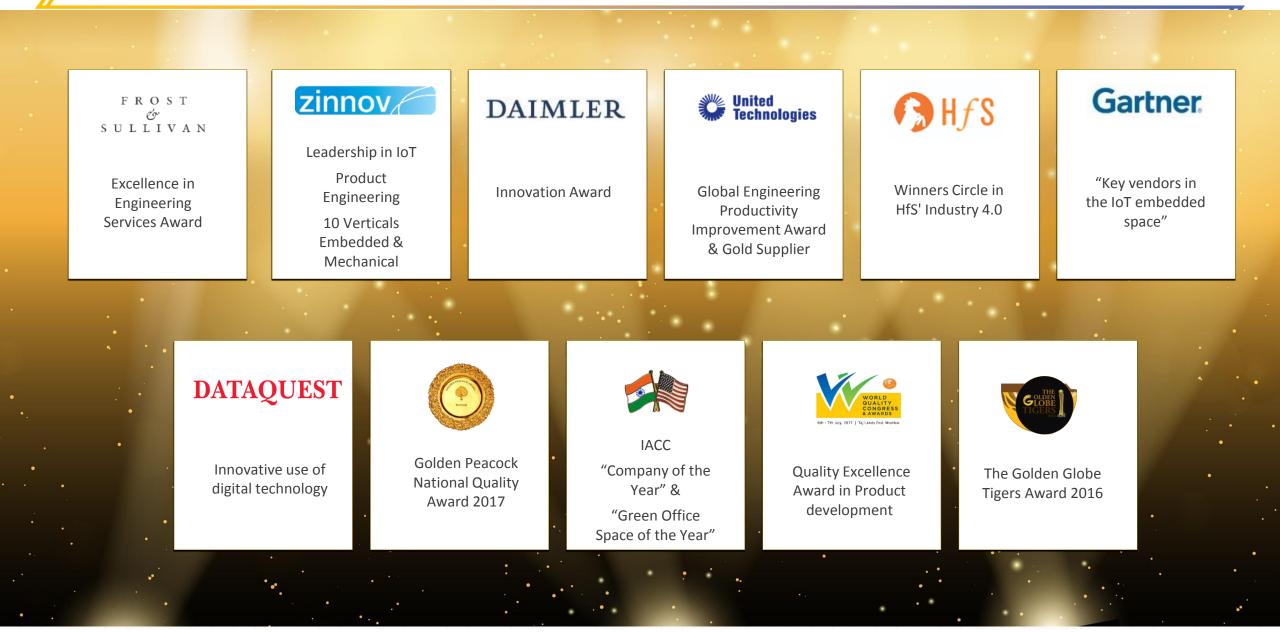
Performance Highlights – Consolidated

FY15	FY16	FY17	Developeteve	Q1 FY18
Actual	Actual	Actual	Parameters	Actual
428	468	484	Revenue from Operations (USD Mn)	128
26,186	30,662	32,483	Revenue from Operations (Rs. Mn)	8,226
252	845	591	Other Income (Rs. Mn)	262
15.2%	16.9%	18.0%	EBITDA Margin	15.3%
13.4%	15.0%	16.1%	EBIT Margin	13.5%
11.9%	13.7%	13.1%	Net Income Margin	11.9%
61.14	65.47	67.06	Avg. Exchange Rate (USD/INR)	64.45

Diversified Business and Geographical Mix



Awards and Accolades



What goes behind Product Design?



ADDRESSING TRENDS THROUGH SPECIALIZED OFFERINGS



CONNECTED PRODUCTS & SERVICES

SMART MANUFACTURING & OPERATIONS

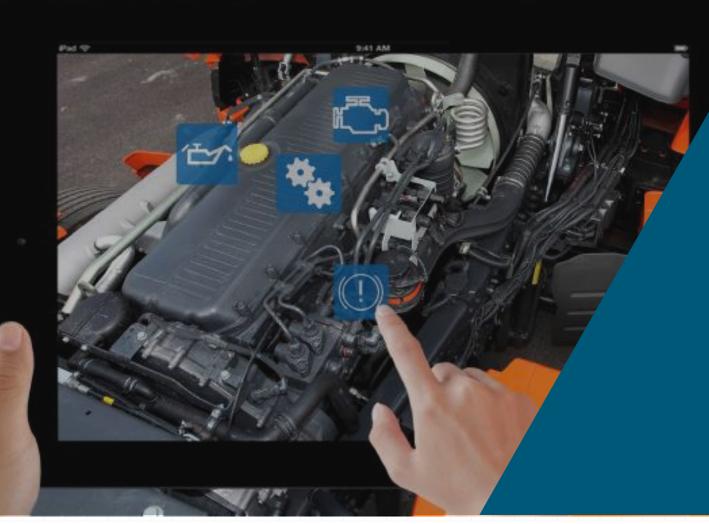


PERCEPTUAL ENGINEERING



PERVASIVE TECHNOLOGIES

Augmented Guiding for Remote Auto Servicing



CASE SOTUDY FOR CONNECTED SERVICES

Augmented Guiding for Remote Auto Servicing:

- Intuitive & Intelligent service assistance
- Online access to Service manual, Drawings
- Auto Health Monitoring

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Remote Supervisory Assist

Market Drivers:

- Monitor the health of spare parts in the vehicle
- Assistance in performing regular maintenance
- Spare parts management

Remote Asset Performance Management



CASE STUDY FOR SMART OPERATIONS

The key challenge in asset intensive industries is to manage field assets and equipment more effectively.

We created a Remote Asset Performance Management Solution for a Construction Major which:

- Intends to cover 30 thousand assets across 500 asset types
- Expected 12% improvement in asset utilization
- Reduced costs as on-time asset availability improve
- Uses our home grown **UBIQWeise**[™] platform

Equipment Monitoring & Effectiveness



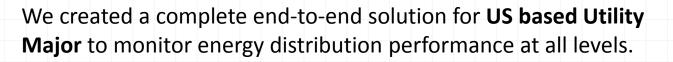
CASE STUDY FOR SMART MANUFACTURING

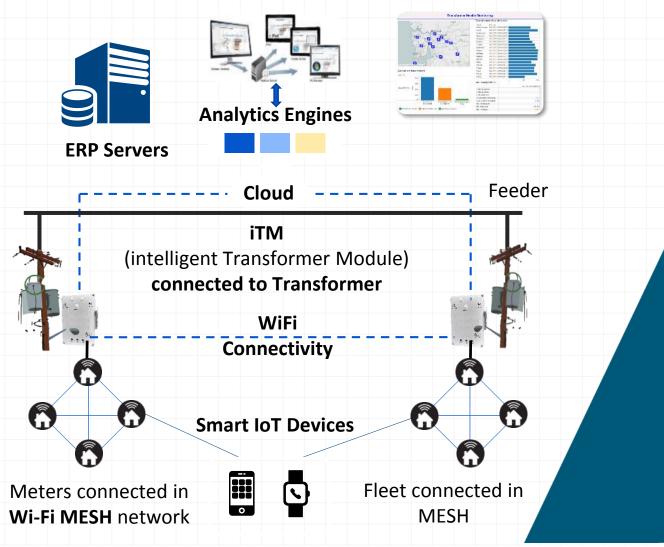
Client requirement was to connect critical 25 years old machines in manufacturing plant for remote monitoring of Overall Equipment Effectiveness (OEE).

We developed a solution where **Multiple** machines in a plant and multiple plants at different locations have been retrofitted with sensors and connectivity.

- Developed Software to analyze, monitor and measure OEE parameters.
- Provides Predictive Maintenance and Energy Conservation.
- Measures the effectiveness and efficiency of manufacturing process.

Smart City Energy Solution for Utilities





CASE STUDY FOR MESH TECH.

HARDWARE SOLUTION

Connected to Meter and Transformer Junction Box

• Transformer health monitoring by capturing critical transformer data like oil and coil temperatures, moisture levels, loading etc.

NETWORK SOLUTION



‡‡ | 4

Data Transmission over Wi-Fi

- Proprietary Mesh Topology
- Uploading voluminous on cloud.
- Scalable network for multimillion end points

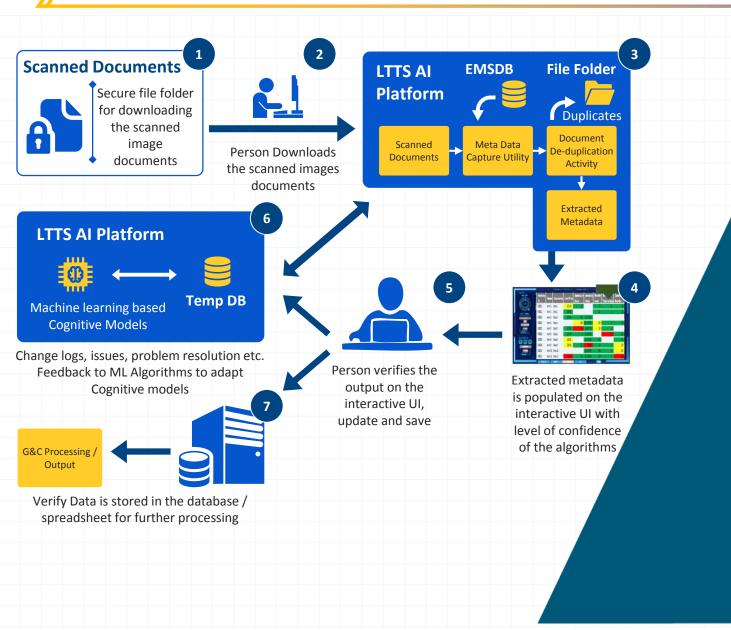
SOFTWARE SOLUTION



Remote Monitoring Application

- Fault & Theft Management
- Demand & Outage Management
- Energy Meter Device Management
- Billing Generation

AI based Document Search and Query Engine



CASE STUDY FOR ARTIFICIAL INTELLIGENCE

We created NLP based Search Application for NA based Engineering Major which brings information and insights to the users who need it fast with minimum efforts.

 Includes Global Engineering Practices that address design, fabrication, inspection, testing, and operational requirements that are accessed by their various stakeholders globally.

• Complete data is indexed in Unified View