Turn Industry 4.0 into a Growth Engine

IoT, INDUSTRY 4.0

Our clients know they need to embrace digital and Industry 4.0 strategies — and they look to us for the guidance and technology they need to make successful transformations.

Mindtree NxT brings digital transformation strategies to life with IoT-enabled and AI-powered solutions to drive both operational efficiency and sustained growth for our clients.

LTIMindtree

LTIMindtree Asset NxT

DIGITIZE YOUR ASSETS TO TRANSFORM YOUR BUSINESS

An Integrated solution that enables digitization of operational assets to provide real time visibility and operations insights of multitude of assets across the globe to various levels of enterprise stakeholders which enable them to take faster business decisions thereby achieving business transformation, operational excellence, meet sustainability goals and provide unmatched customer experience.

Pain Points, Customer Questions & Need of the Future

BUSINESS PROBLEMS

Warranty claims reduction	Risk free extended warranty	Competition differentiator	Better customer engagement	Increased after sales revenue	Reduce cost of hiring / maintenance

OPERATIONAL PROBLEMS

Lack of Visibility on Equipment Utilization	Underrated Fuel Efficiency	Absence of real time machinery monitoring	More Manual and less Data Driven Decision Making	Frequent Asset Breakdown due to overload	Equipments sitting idle and adding to cost & maintenance	Looking for Route Optimization and improvement in TAT?

Asset Nxt provides IIoT and AI based integrated solution catering to the entire value chain from hardware to Cloud to Application covering across wide variety of industries.

Asset NxT

Provide real-time visibility to a wide range of industrial equipment, machines, vehicles and systems.

Preventive Maintenance

Efficiency & Effectiveness

Improve Visibility- Real Time Insights

Track Your Assets

Capacity, Asset Utilization, Productivity

Performance and Monitoring

- IIoT and AI based solution to drive digitalization of operational assets.
- A network of connected assets for high-value data & real-time processing
- Integrated Solution catering to the entire value chain from hardware to Cloud to Application
- Scalable, Secure, micro services-based architecture that can extended easily
- AI-powered algorithms that convert data into insights for a variety of applications

6,500
Tools tracked & traced

45
GB of data processed per day

400+
Makes & models traced

400+
Project sites

11,500
Plants & machinery connected

10,000+
Connected assets Construction, Mining & Logistics

Connected Assets Platform – Details

Asset Performance Monitoring

- Asset onboarding and remote device management through the portal
- Real time asset health and productivity monitoring through defined KPIs
- Customizable alerts/ notifications on asset health and productivity based on business rules

Reports and Dashboards

- Customizable reports and dashboards as per requirement
- User and access control management control
- Self service reporting
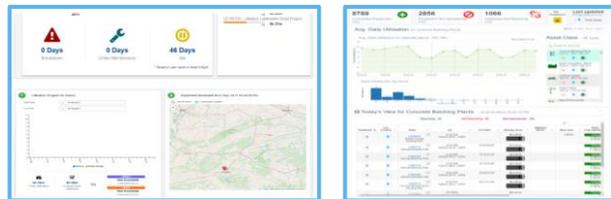
Analytics and Actionable Insights

- Advanced analysis on real time and historical data of the defined KPIs
- Actionable insights for use cases such as : condition monitoring , preventive maintenance and pilferage detection

Operational Technology (OT) Integration

- End to end IoT devices, sensors, gateways and other hardware procurement and management
- Integration of OT systems with IT systems
- Field support services for the installed hardware

Asset Monitoring

OT Integration

Actionable Insights

Asset NxT

Meaningful ROI and Future Readiness

Our IoT solutions give our clients **definitive measurements for a variety of KPIs**.

Customers who have deployed our connected equipment solutions have experienced:

30%	**40%**	**35%**	**10%**
Increase in Asset Utilization	**Improvement in Equipment Availability**	**Improvement in Capacity utilization**	**Reduction in energy consumption**
40%	**20%**	**12%**	**20%**
Improvement in Machinery Productivity	**Reduction in Equipment Idle time**	**Improvement in OEE in factories**	**Reduction in equipment hiring costs**

Why Asset NxT

INDUSTRY PROVEN SOLUTION

400+ Successful Projects, **100+** Asset Types, **10000+** Equipment Connected

NEXT GEN CONNECTED PLATFORM

Built on Micro service architecture with best-in-class security features to enable **easy scalability**

CLOUD AGNOSTIC MODULAR ARCHITECTURE

Variety of deployment options with the flexibility to switch between different hyper scalers

LOW INITIAL INVESTMENT (OPEX MODEL)

OPEX model helps in preserving capital and maintain flexibility at the same time

FOCUS ON YOUR CORE BUSINESS

For **Hardware, Platform, Cloud, Application and Field Support**

FASTER TIME TO MARKET

Platform with several enablers and pre trained models that can reduce build time significantly

VALUE ADDED INSIGHTS

Value added insights on equipment performance supported by self service analytics options

CONFIGURABLE UI

Personalized solutions for specific requirements and configurable metrics

Our Operating Model

SAAS BASED SOLUTION

Platform, License cloud based

MONTHLY SUBSCRIPTION BASED PRICING

Per month per device subscription based

24/7 COMMAND CENTER

Managed Services Support

FIELD SERVICE SUPPORT

Hardware- gateway, sensor procurement, Breakfix, IMAC, Device as a service model

Enhancing Op. excellence by leveraging IoT for a large EPC player.

PROBLEM
- Lack of real time visibility on asset utilization, productivity and data to aid decisions on asset allocation, right sizing, new asset purchase and optimizing operational costs
- Instrumenting ~ **400 makes and models, 40 types and over 11000 assets.**

SOLUTION
- Instrumenting assets by use of sensors (vibration, temperature, fuel level etc. to capture data from engine, fuel tank, hydraulic system
- Ruggedized IoT gateway with GPS and edge analytics capabilities for collating and transmitting data to cloud.

RESULT
- **15-20%** reduction in equipment idle time
- **10-15%** improvement in asset productivity
- **30-35%** improvement in capacity utilization
- **20-25%** reduction in fuel consumption

IOT based asset optimization for the largest steel frame manufacturer.

PROBLEM

- Frequent machinery breakdown leading to loss of Production
- Low productivity on the shop floor and idle time of machines
- Issues with wastage and scrap

SOLUTION

- Conversion of Legacy Factory Machinery to Smart
- Wireless data acquisition from 70+ machines & More than 50 variables from each machine
- Empowering Operator with HMI for local decision support for machinery alarms, alerts, productivity

RESULT

- **OEE Improvement 18%** by reducing idle time in plate punching machines
- **OEE Improvement of 10%** in CNC Machines
- Reduction of Scrap & Wastage by **8%**
- Alert management system reduced the maintenance team response time from **45 mins to 2 mins**

Let's get to the
future, faster.
Together.