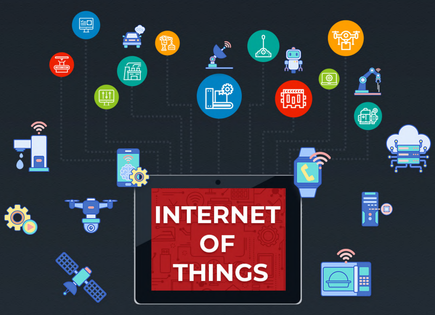
Internet of Things (IoT) for Manufacturing

Nitor
Brilliance @ work



Industrial Internet of Things (IIOT) enables manufacturing enterprises to maximize operational efficiency, productivity, and performance. At Nitor, we leverage digital and intelligent technologies to empower manufacturers with an array of Internet of Things (IOT) industry implementations to enhance their manufacturing process and customer experience.

Role of IoT in the Manufacturing Industry

30 billion IoT devices exist around the world and every second 127 IoT devices are getting added! In 2025, this figure is estimated to be 80 billion.

Internet of Things (IoT) aids manufacturers to build equipment that boosts production levels by leveraging the latest technologies like AI, ML, Blockchain, and Microsoft Azure.

Here are the benefits of IoT-integrated equipment for manufacturers

- Monitor real-time data
- Reduce downtime
- Enhance forecasting
- Increase production efficiency
- Collect critical machine data

Smart IoT Solutions for Manufacturers

Here's how manufacturing businesses leverage IoT equipped smart business solutions to amplify their productivity

- **50%** Inventory
- **57%** Equipment
- **61%** Supply Chains

IoT Implementations for the Manufacturing Industry

#1 PREDICTIVE MAINTENANCE

40% worldwide manufacturing industries are using predictive maintenance to enhance production levels

Predictive maintenance prevents glitches in production processes by diagnosing critical machine data. Manufacturers can leverage IoT for automating their business processes that include autonomous maintenance scheduling rather than manual ones.

USING PREDICTIVE MAINTENANCE WITH IOT

Here's how strong features of Predictive Maintenance can aid modern-age manufacturers

Predictive Maintenance

- Connect machines
- Create work orders
- Monitor sensors conditionally
- Attain maintenance alerts
- Observe production flow and eliminate waste

Why Nitor?

Nitor leverages its predictive maintenance expertise to deliver machine-level insights for making informed decisions and mitigate risks.

#2 REAL-TIME ASSET MONITORING

73% data within an enterprise goes unused that can be otherwise leveraged for analytics

Real-time asset monitoring is an asset tracking system implemented to trace the physical assets of an organization. This process is essential for smart factories to monitor equipment, inventory levels, and workflows at various stages.

This leads to quicker identification of bottlenecks, systematic planning, and a significant boost in productivity.

MONITORING REAL-TIME ASSETS WITH IOT

Here's how real-time asset monitoring can aid industry-leading manufacturers

REAL-TIME ASSET MONITORING

- Monitor personnel
- Observe inventory levels
- Track equipment utilization
- Check work-in-progress

Why Nitor?

Nitor builds cutting-edge real-time asset tracking solutions for manufacturers to improve inventory management, manage ordering processes, and plan maintenance schedules.

#3 OPERATIONAL INTELLIGENCE SYSTEMS

45% manufacturers have significantly increased investment in data analytics and operational intelligence in 2020

Continuous operational intelligence is a gamechanger for manufacturing. IoT has inspired operational intelligence applications for analyzing sensor data that is captured from manufacturing machines, pipelines, elevators, and other equipment.

This helps them detect IT operational issues, discover potential equipment failures, and analyze machine data that includes server, network, and website logs.

BUILDING OPERATIONAL INTELLIGENT SYSTEMS WITH IOT

Here's how intelligent and analytics-based systems can benefit manufacturers

- Gathor sensor data from machines and equipment
- Collect server,network and website logs

MAKE INFORMED DAY-TO-DAY DECISIONS

Why Nitor?

Nitor helps manufacturers build intelligent systems that perform real-time data analysis using artificial intelligence, machine learning, etc. Our deliverables focus on areas like smart quality assurance, sensor data modelling, comprehensive business perception, and intelligent automation & control.

Want to know how you can leverage IIOT for your organization?

LET'S TALK

Sources:
www.transformindustry.com
www.accenture.com
www.statista.com

To get more details,
please visit our **website** or feel free to **connect** with our IT manufacturing industry experts.

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