

How the industry is using IoT-based **Asset Management**

IoT-based asset management can improve business processes for several sectors. Here's how

1. IoT Asset Tracking for Manufacturing

IoT aids in the collection of data from different perspectives. These include operations, production, quality, utilization, and consumption. This data can also streamline and refine business processes and make better business decisions.

A typical manufacturing plant generates data on different assets and resources as part of the production lines. But without IoT, this data goes unnoticed, is unused, and is often not even captured. As a result, businesses lose out on crucial insights like asset health, performance, usage, operational data, maintenance, logistics, and resource utilization. IoT-based asset management ensures that this data is made available and insights are utilized to improve asset lifecycle.

Manufacturing companies are gaining better visibility into their operations and significantly improving them by providing a digital identity to their physical assets with IoT-based solutions. This is a competitive advantage, and manufacturers agree. 58% of manufacturing CEOs consider IoT a strategic initiative for their business growth.





2. IoT asset tracking for logistics

Did you know that in the US, more than 70% of all goods and 95% of manufactured goods are transported by trucks? It is crucial that logistics and fleet companies have complete visibility into their assets to keep up with supply chain demands and meet customer needs. IoT-based asset management comes to the rescue.

Location and route management capabilities of IoT-based asset management are gaining massive popularity in the logistics sector. These solutions enable logistics managers to monitor and track the location of their trucks in real time.

By using GPS tracking systems and geofencing techniques, routes can also be monitored from remote locations. This further helps the logistics companies track driver activities and ensure timely cargo delivery.

3. IoT asset tracking for construction

As urbanization proliferates, the construction industry is undergoing a massive transformation to improve efficiency, worker well-being, and process improvements.

As the sector adopts IoT-based asset tracking solutions, it is improving several processes and decisions. For example, IoT interventions in the construction asset lifecycle provide real-time visibility into critical matters like worker safety and efficiency, equipment safety and functioning, and inventory and energy utilization.



4. IoT asset tracking for education

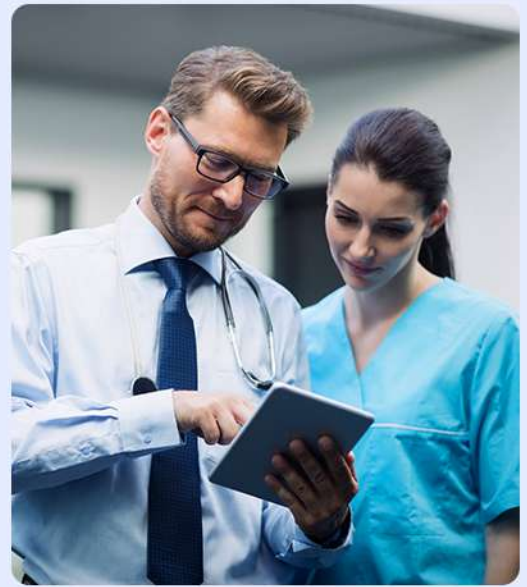
The education sector is transforming with the increased use of expensive devices like smart blackboards, laptops and tablets, and even sensitive lab equipment and materials across urban and remote rural centers.

IoT-based asset tracking can help educational institutes monitor the health of these assets, protect idle devices from theft or breakdowns, and even control access to sensitive equipment and materials. This not only levels up the functioning of educational aids and learning environments but also keeps students, educators, and lab operators safe.

5. IoT asset tracking for healthcare

Besides monitoring patients' health, sensorized IoT devices help track the real-time location of mission-critical medical equipment like defibrillators, nebulizers, wheelchairs, and oxygen pumps, among others. In addition, the deployment of medical staff at different locations can also be analyzed in real-time, ensuring optimized staffing for optimal care.

In addition, infections continue to be a significant concern for patients and healthcare providers in hospitals. IoT-enabled hygiene monitoring devices can prevent infectious diseases from pilfering through sensitive areas of the hospital, delivering improved care for patients and healthcare workers. IoT-based asset management also helps in critical workflows like pharmacy inventory control and optimization.



6. IoT asset tracking for agriculture

A traditional sector like agriculture stands to benefit significantly from IoT intervention. IoT-based asset tracking boosts conventional farming operations to maximize yield to meet the increasing demands, improve product quality and decrease production losses.

This happens with sensorization and GPS tracking for farming equipment. It helps farm owners monitor and conserve natural resources like water and fertilizers, track livestock, and observe soil moisture and temperatures to ensure optimal farming schedules.

In addition to improving farming efficiency, IoT asset management gives farmers insightful data for rational farm management plans, saving them time and money.



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