

## Importance of IIoT for manufacturers:

The importance of IIoT comes from its ability to increase efficiency by automating processes and using data to make better decisions. Manufacturers can reduce waste, minimize downtime, and increase productivity. As an example the IIoT-enabled robots can perform repetitive tasks more quickly and accurately than human workers. IIoT-enabled machines can adjust their settings based on real-time data to optimize their performance which results in higher quality products and a faster time to market. While the IoT has revolutionized the way we live and work, the Industrial Internet of Things (IIoT) is transforming the way we manufacture goods, distribute products, and manage our resources. The world is rapidly evolving into a more connected, data-driven society. This is due in large part to the Internet of Things (IoT), a network of devices that communicate with each other to share data and improve functionality. IIoT is the application of IoT technologies to industrial settings, and it has become increasingly important in today's era due to its ability to streamline processes, increase efficiency, and reduce costs. The IIoT consists of a vast array of devices, sensors, and software systems that work together to collect and analyze data from machines, equipment, and other assets. This data can be used to optimize production processes, detect problems early, and improve decision-making such that sensors in a factory can measure temperature, humidity, and vibration levels, and send this data to a central system for analysis. This information can be used to predict when machines will need maintenance, optimize production schedules, and even detect potential safety hazards. One of the important advantage of IIoT is its ability to improve safety by monitoring machines and processes in real-time, IIoT systems can detect potential safety hazards before they occur. Suppose if a machine is vibrating abnormally or producing excessive heat, an IIoT system can alert workers to take immediate action before a catastrophic failure occurs. IIoT also plays a crucial role in sustainability efforts. By optimizing resource usage and reducing waste, IIoT systems can help in reducing their environmental impact. IIoT-enabled sensors can monitor energy usage in a factory and suggest ways to reduce consumption. IIoT also enables supply chain management systems to track the movement of goods. To stay competitive in today's marketplace IIoT is essential with customers demanding faster delivery times, higher quality products, and more sustainable manufacturing practices. Companies that don't embrace IIoT risk may fall behind. Hence by using IIoT to optimize their operations, companies can reduce their costs and improve customer satisfaction, hence they can differentiate themselves from their competitors. Therefore, IIoT is an essential tool for modern industrial settings. It allows companies to increase efficiency, improve safety, reduce environmental impact, and stay competitive in today's marketplace. As IIoT technologies continue to evolve, it will play an increasingly important role in shaping the future of manufacturing. Companies that embrace IIoT today will be better positioned to succeed in the years to come. There are various technology companies that make the power of IIoT reach to the manufacturing setups, such as [Solulever, a Dutch Technology startup](#). The company offers a manufacturing connectivity and intelligence platform solution, [Brabo Edge platform](#) that establish a strong mesh of interconnected machines and equipment. The platform's ability to capture data spontaneously right from the point it is originated, mash it with business insights and apply advanced analytics helps in achieving smart manufacturing.