

# AIoT: The Supply Chain Revolution of the Future

*The technological revolution in the supply chain is now a reality! More and more competitive advantages are being unlocked across operations through the integration of disruptive technologies.*



## Key Drivers of the Intralogistics of the Future

Discussing new [technologies and applications in the logistics sector](#) is far more than just a trend. Globally, leading companies are implementing robust solutions in automation, robotics, analytics, and prediction. While the challenges and economic or cultural barriers can seem overwhelming—along with the lack of preparation and knowledge for the correct adoption of these technologies—it's expected that these gaps can be bridged through collective effort. The key lies in strengthening partnerships, building synergy between teams, and embracing next-generation technologies.

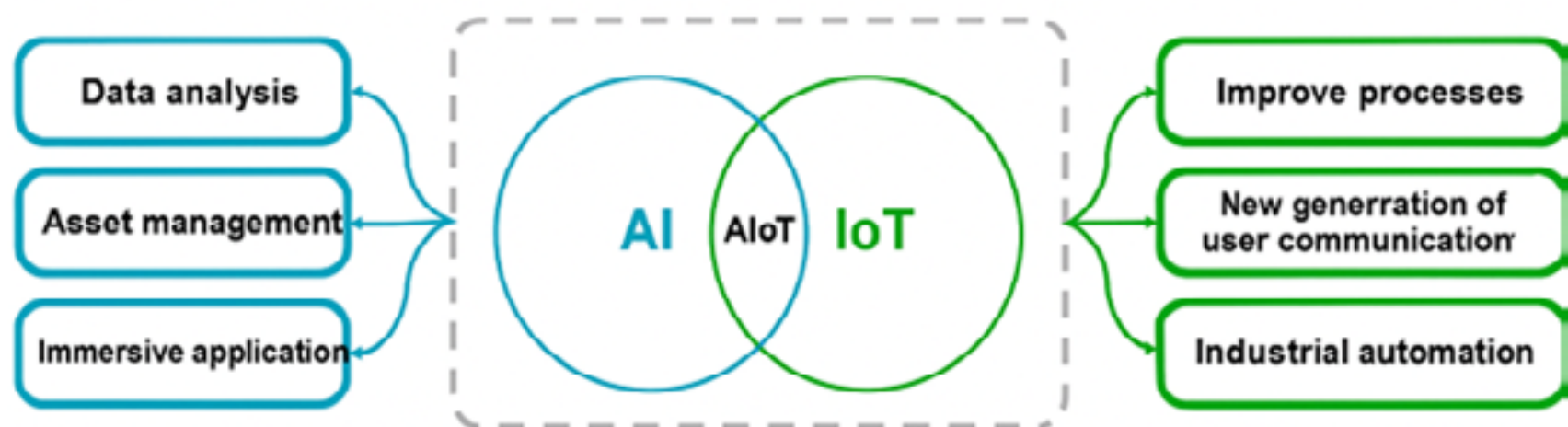
The synergy between technologies like AI and IoT is giving rise to new intelligent ecosystems such as AIoT. Let's see it in action.

## What is AIoT and What Are Its Supply Chain Projections?

**AIoT (Artificial Intelligence of Things)** is the fusion of [Artificial Intelligence \(AI\)](#) and the Internet of Things (IoT). These powerful technologies individually already show strong growth potential, but together they create a revolutionary ecosystem composed of intelligent sensors that enable **exponential interconnectivity** and **simultaneous interactivity** between various automated systems. This leads to agile, autonomous decision-making, improving efficiency and reducing costs.

According to data from Research and Markets, the global AIoT market is expected to reach **\$91.2 billion USD by 2028**, with a compound annual growth rate (CAGR) of **40.6%**. By that year, AIoT-driven innovations are projected to transform operational efficiency and boost the value of machine data by up to **29%**.

## What is the synergy of AIoT creation?



### Benefits of AIoT in the Supply Chain

Thanks to this synergy, the AIoT ecosystem within the supply chain delivers several key benefits, including:

- 1. Reduction of Operational Risks:** AIoT minimizes risk by collecting real-time data and predicting failures or maintenance needs in collaborative robots, vehicles, and other critical equipment.
- 2. Lower Operating Costs:** AIoT improves inventory and demand management, provides real-time visibility, enables full traceability, and streamlines processes. This creates a **smart, autonomous, and proactive network**, increasing efficiency and cutting costs.
- 3. Enhanced Customer Experience:** Continuous AIoT monitoring predicts demand and intelligently analyzes market trend histories using advanced algorithms. This ensures that products are **never understocked or overstocked**, so customers can always find what they're looking for.

**4. Improved Operational Efficiency:** By combining **IoT sensors**, which collect real-time data, with **AI algorithms** that analyze this data, AIoT enables process optimization, error reduction, and task automation. This ecosystem fosters perfect synergy between **human operators and machines**, introducing artificial vision and contextual understanding to deliver more intuitive and fluid operational experiences.

**5. Real-Time Monitoring:** Using algorithmic processing and sensor integration, AIoT can monitor AI-generated insights to analyze IoT data in real time—generating alerts, forecasts, and actions autonomously.

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### **AIoT Is Defining a New Era in the Supply Chain**

AIoT is ushering in a clear before-and-after moment in the supply chain and across various industry sectors. While complex challenges remain, such as:

- Integration into diverse technological environments
- Initial investments in software and hardware
- Security risks
- Workforce training and preparedness

The **technology is already here—mature and fully functional**. The real question is no longer if to implement it, but when and how to do so effectively, to avoid falling behind in this new era of **connected efficiency**.

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## **Impact of Automation on E-Commerce in 2024**

E-commerce has been steadily gaining strength in the Mexican market for several years, and each period sees increased adoption across more segments of the population. Fortunately, this trend is expected to continue growing.



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