

horizon



The Exafore Horizon Benefits for Industry

Why Exafore Horizon?

Indoor positioning has become increasingly integral in various industrial environments, revolutionizing the way businesses operate and optimize their processes. The benefits of implementing indoor positioning in industrial settings are multifaceted, encompassing improvements in efficiency, productivity, and safety.

While the initial investment in indoor positioning technology may seem substantial, the long-term benefits outweigh the costs. The higher situational awareness, optimized resource utilization, reduced downtime, increased safety, and lower maintenance costs contribute to significant cost savings over time.

Here we will delve into the numerous advantages of Exafore Horizon indoor positioning solution in industrial settings, giving an overview of how these contribute to enhanced operations and overall business success.

Increased Efficiency and Productivity

The primary advantage of Exafore Horizon in industrial settings is the optimization of all workflows and resources. The real-time nature of indoor positioning data empowers industrial businesses with immediate insights into their operations. Horizon enables the tracking of assets, equipment, and personnel in real-time, allowing for quick reaction to bottlenecks and inefficiencies in the production process.

Monitoring and analytics tools can leverage data from Horizon to generate actionable intelligence, allowing for quick decision-making and continuous process improvement. By analysing historical location data, businesses can identify trends, predict potential issues, and implement preventive measures. By analysing movement patterns and utilization rates, businesses can streamline operations, reduce downtime, and enhance overall productivity.

Next, we will dive into details of some Exafore Horizon use cases offering increased efficiency and productivity.

Asset Tracking and Management

Many industrial facilities involve the use of expensive machinery, tools, and equipment. Exafore Horizon enables the tracking and management of these assets in real-time, minimizing the risk of theft or loss. This technology ensures that assets are used efficiently, scheduled for maintenance at the appropriate times, and located promptly when needed. This proactive approach to asset management extends the lifespan of equipment and reduces operational costs.

Inventory Management

Effective inventory management is critical to avoid overstocking or stockouts, both of which can have significant financial implications. Indoor positioning systems provide accurate and up-to-date information on the location and status of valuable inventory items. This not only prevents the loss of valuable time searching for materials but also aids in the implementation of lean practices, reducing carrying costs and optimizing supply chain efficiency.

Geofencing for Operational Control

Geofencing, a feature enabled by indoor positioning systems, allows businesses to define virtual boundaries within their facilities. This technology can trigger automated actions when a device or person enters or exits a specific area. For example, geofencing can be employed to automatically adjust temperature settings, activate or deactivate machinery, or send alerts based on the location of assets or personnel. This level of operational control enhances efficiency and reduces the margin for error in complex industrial processes.

Collaboration and Communication

Communication and data sharing are essential elements of efficient industrial operations. Indoor positioning systems facilitate better communication and collaboration among team members by providing instant location-based information. This is particularly valuable in large facilities where coordination can be challenging. Workers can locate each other, coordinate tasks, and respond promptly to changes in the production environment, fostering a more agile and responsive workforce.

Worker Productivity and Safety

Indoor positioning systems contribute significantly to the safety and productivity of employees. Additionally, location data can be analysed to optimize work schedules, allocate tasks efficiently, and identify opportunities for training and other skill development.

Safety is a paramount concern in industrial environments, where the complexity of operations and the presence of machinery pose inherent risks. Indoor positioning systems play a pivotal role in ensuring the safety of workers by providing real-time location data. This information allows for the implementation of proximity alerts and geofencing, preventing accidents such as collisions in high-risk zones or highly populated areas.

Quality Control

In industries where precision and quality control are paramount, Exafore Horizon contributes to ensuring product quality. By tracking the movement of goods, quality control samples and personnel through various stages of production, businesses can identify and rectify issues in real-time, minimizing defects and waste. This level of control is especially crucial in industries such as manufacturing and pharmaceuticals, where adherence to strict quality standards is imperative.

Regulatory Compliance

Many industrial sectors are subject to stringent regulatory requirements regarding worker safety, environmental standards, and operational protocols. Exafore Horizon assists businesses in adhering to these regulations by providing a transparent and traceable record of operations. This not only helps in avoiding penalties and legal issues but also enhances the overall reputation of the business as a responsible and compliant entity.

Energy Efficiency

Energy consumption is a significant concern in modern industrial settings, and Exafore Horizon can contribute to energy efficiency. By tracking the movement of personnel and assets, businesses can optimize the usage of lighting, heating, and cooling systems in specific areas. This not only reduces energy costs but also aligns with sustainability initiatives, contributing to a greener and more environmentally conscious operation.

Conclusions

The benefits of indoor positioning systems in industrial environments are vast and transformative. The utilization of Exafore Horizon not only addresses the unique challenges posed by indoor environments but also opens up new possibilities for enhanced collaboration, communication, and data-driven decision-making.

Exafore Horizon is easy to integrate and works seamlessly across different platforms and ecosystems. This interoperability ensures that the positioning data from Horizon can be easily integrated into various IoT solutions, production management systems and ERPs.

Further, Exafore Horizon is scalable and adaptable to the changing needs of industrial environments. Whether a facility undergoes expansion or undergoes reconfiguration, Horizon can be easily scaled to accommodate changes in the physical layout. This flexibility ensures that businesses can continue to benefit from indoor positioning data as they evolve and grow. Horizon can be integrated with other emerging technologies, such as the Internet of Things (IoT), artificial intelligence, and machine learning. This integration allows for more sophisticated data analysis, predictive maintenance, and automation. The synergy between indoor positioning and other advanced technologies creates a holistic and technologically novel industrial ecosystem.