



WILOC and ExxonMobil drive digitalization in the areas of productivity, occupational health and safety in Singapore

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WILOC has implemented personal protective equipment (PPE) based on LoRaWAN technology, through which the company is managing to monitor more than 4000 workers in real time, optimizing the management of entry and exit in the workplace.

The speed and accuracy of these solutions are essential in dynamic industrial environments, significantly reducing access times to the workplace and saving an average of 20 minutes per worker per day.

According to McKinsey's global survey, only 30% of oil and gas companies have successfully scaled digital adoption, making a real impact on production KPIs, with 70% of leaders and 50% of laggards seeing digital transformation as a critical component to ensure they remain competitive, according to the Accenture report.

In this context, the industry in Singapore has been undergoing a significant transformation, embracing digitalization. WILOC, world leader in the implementation of cutting-edge solutions for the digitization of processes in different industrial sectors, has been selected as a key player in the evolution of the sector, highlighting the growing trend towards the implementation of advanced technologies in the management of safety and productivity in workspaces, becoming a key pillar to optimize work management and promote safer environments.

In collaboration with Técnicas Reunidas for ExxonMobil, WILOC was able to participate in the expansion project of the integrated production complex on Jurong Island. Thanks to its solutions based on the most advanced IoT technology, WILOC has played a key role in the digitization of Occupational Risk Prevention and access control at the site through the implementation of personal protective equipment (PPE) based on LoRaWAN technology, through which the company is managing to monitor more than 4,000 workers in real time, optimizing the management of entry and exit at the workplace.

The adoption of this solution, based on a LoRaWAN wireless communications network, has proven to be crucial in the efficient monitoring of workers, allowing not only an agile management of entry and exit at work sites, but also an increase in occupational safety by identifying risks in real time. In addition, an innovative system has been implemented to control and validate access permits in the vehicles that transport workers from the camps to the work site through PPE and without the need to get out of the vehicle, eliminating the need to use conventional turnstiles.



Importantly, the speed and accuracy of these solutions are essential, especially in dynamic industrial environments. All data collected from the physical environment is centralized in an On-Cloud Software platform, covering HSE management, productivity and site access control, which is strategic to significantly reduce access times to the workplace and save an average of 20 minutes per worker per day, which also translates into significant cost savings.

The digitization of occupational risk prevention has improved the response to dangerous incidents, such as severe thunderstorms in the area and other inclement weather that can compromise the safety of workers during their working day. In addition, smart personal devices allow for real-time monitoring of biometric parameters of workers, allowing for the identification of risks and the notification of both workers and supervisors in dangerous situations. It is worth noting that, with an integrated individual panic button, workers are also able to notify emergency situations at any time.

In the development of this project, WILOC had a multidisciplinary team composed of a project manager, an engineer specialized in the user interface of the IoT platform, a platform architect and several backend engineers. **As Javier Benjumea, CEO of WILOC Technologies, points out,** "Collaboration between companies and technology solution providers is becoming essential to continue redefining standards in modern workspaces. Investing in digitalization and workplace safety not only boosts operational efficiency, but also ensures safer and more sustainable work environments".

This evolution in the industry, supported by companies like WILOC, not only optimizes productivity and safety, but also demonstrates Singapore's commitment to adopting advanced technologies to stay ahead in an increasingly competitive labor market. With this premise, WILOC continues to lead the way in implementing innovative solutions in digitizing workplace safety and improving productivity, redefining standards in modern workspaces.

About WILOC

WILOC is a world leader in the implementation of cutting-edge solutions for the digitization of processes in different industrial sectors, such as renewable energies, extraction and processing of oil and gas derivatives, construction or traceability of assets and people in smart ports 4.0, contributing to the optimization and reduction of costs. Its solutions, multifunctional, fully scalable and versatile, are aimed at ensuring the safety of workers in all types of industries thanks to its real-time positioning and management of access, entrances, exits and presence; increasing productivity in the renewable energy sector through the digitization of processes; the management and control of assets in warehouses; or the location and management of vehicles and operators in ports. WILOC is currently collaborating with some of the main international engineering projects in markets such as the USA, Saudi Arabia or Singapore, or in different European countries, including Spain. For more information, please visit www.wiloc.com