

## INDUSTRY 4.0

# Mobile Robotics

## HOW CAN TELEFÓNICA TECH HELP?

Automate recurring industrial processes more efficiently and with real-time traceability.

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In the current context of uncertainty due to several crises, many companies are betting on mobile robotics to improve production safety. **The autonomous mobile robot market is estimated to** reach \$3.88 billion by 2024 and **grow to \$8.02 billion** by 2029, at a CAGR of 15.60% (2024-2029).

**The main challenges** in implementing these solutions include:

**Knowing the production process and the stages that can be automated**, as each case requires a customized solution. And **training personnel**, since working in hybrid environments with people and mobile robots represents a paradigm shift in industrial plants.

**Telefónica Tech** offers several mobile robotics solutions and has a team of experts who analyze, design, implement, integrate, and support the complete solution, ensuring that it adapts to the specific needs of each company.

## WHO IS THIS SERVICE FOR?



Companies with intralogistics movements in their plants, such as manufacturing, food and beverage, chemical, pharmaceutical or logistics, seeking to optimize internal processes.



Companies that perform routine inspections in environments that are dangerous for people, such as those in the chemical, energy, oil and gas, and mining sectors, among others.



Organizations that are interested in automating, streamlining and optimizing resources, both personnel and space, to increase their operational efficiency.

## OUR VALUE PROPOSITION

### Our service

We offer **end-to-end management of complete mobile robotics solutions**. This includes robotic engineering that analyzes and defines the scope of the project, the design and development of the hardware and software elements necessary to automate the production processes, and the start-up of the project.

Among the mobile robotics options that we offer you can find:

- › **AGVs/AMRs** (forklifts, tugs, platforms, good-to-person systems).
- › **UGVs** (quadruped and all-terrain robots).
- › **MMRs** (mobile manipulator robots).
- › Cleaning robots.
- › Inventory systems with RFID technology.

We also offer an **after-sales support service**, adapted to the needs and criticality of each plant, to guarantee maximum performance and operational continuity.

### What does it allow you to do?

This service offers:

- › Increase effectiveness in intralogistics movements and operational inspections of industrial plants.
- › Increase production capacity and optimize workflows thanks to the possibility of 24/7 continuous operation.
- › Flexibility, enabling easy design changes to production systems.

## Benefits

### Indoor and outdoor security

Ensures equally secure communications during transport or inspections, both indoors and outdoors.

### Increased safety in oil & gas plants

Real-time data collection and processing makes it possible to identify dangerous situations and take immediate action, ensuring the safety of employees.

### Increased robotization capacity

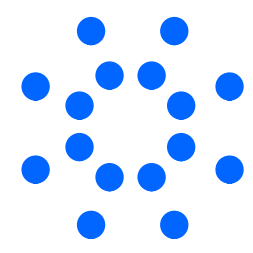
Possibility of connecting a greater number of robots in the same plant, thanks to communication via LTE and 5G networks.

### End-to-end service agnostic

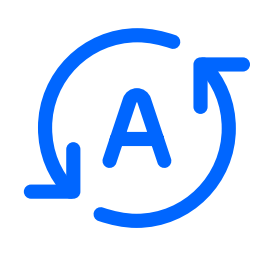
The customer can delegate the automation of its process to a team of experts who design solutions based on the best technologies and suppliers in the market, adapted to the specific operational needs of the plant.



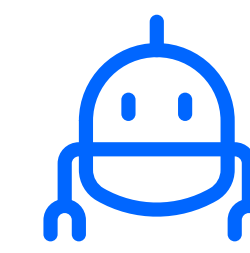
## Telefónica Tech's differential value



**Full integration:** Compatible with existing tools and workflows, such as the customer's ERPs and WMS, or with new systems that we can provide.



**Comprehensive and agnostic automation:** Allows complete automation of repetitive processes, without limitations by brand or manufacturer, and applicable to sectors such as manufacturing, intralogistics and inspections.



**Advanced scalability:** Possibility to expand the number of robots and operate both indoors and outdoors, thanks to the experience in implementing communication technologies such as WiFi, LTE and 5G.

### EQUIPMENT, TEAMS AND ACHIEVEMENTS

#### Our teams

- › **3 NOC locations**, Madrid, Valladolid, and Brazil.
- › **+6 partners** specialized in automation and mobile robotics.

#### Achievements

- › **Replicable** service in different geographies.
- › **+ 7 projects** with real customers.

### BUSINESS MODEL

After analyzing the customer's plant and operational flows, we define the routes, the number and type of robots required, as well as the additional elements to ensure the integration of the environment with the new robots. The service **includes all required hardware and software, as well as the full deployment and configuration of the solution.**

Our IoT & Big Data NOC experts offer operational support at different levels, adapted to the criticality of the production process. This service can be contracted on a monthly subscription basis, ensuring continuous and efficient maintenance.

## RELATED PARTNERS

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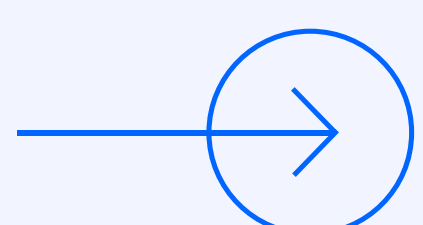
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## RELATED SERVICES

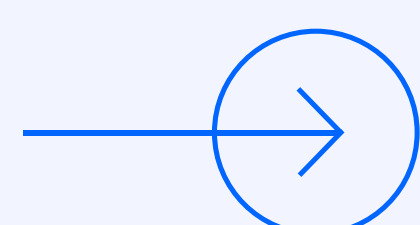
### Private Mobile Networks

An industrial network enables critical business operations by ensuring continuity, flexibility, and mobility in processes, supporting the rapid adaptation of production chains. It provides real-time responsiveness with low latency, depending on business criticality.



### Industrial Management Software

It is a comprehensive solution that optimizes efficiency in end-to-end manufacturing processes. It offers management of APS/SCM planning, DCS/SCADA/MES production, QMS quality, SGA logistics, and GMAO maintenance.



### Computer Vision

An integrated solution designed to optimize efficiency in end-to-end manufacturing processes. It enables the management of APS/SCM planning, DCS/SCADA/MES production, QMS quality control, SGA logistics, and GMAO maintenance.



Contact us to start the digital transformation of your organization.

