

5G Robotics for industrial facilities supervision

MWC 2022

Transformation is now



01

5G Technologies



02

5G & Robotics



03

Live demo



5G IS A SET OF TECHNOLOGIES WORKING TOGETHER



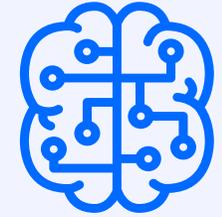
5G NETWORK



EDGE COMPUTING



NETWORK SLICING



INTELLIGENT NETWORKS

A new radio for a new era

When speed of light is too slow

When each device has different demands

Able to manage complexity while assuring QoS

WITH CYBERSECURITY AS A KEY ENABLER



5G

Internet slice

Internet and others



5G network



5G

Telecontrol platform

Telecontrol slice

Analytics and auditing database



Zona Edge Computing



Artificial Intelligence



5G

Real time data processing

AI and data slice

Model training and auditing database



Autonomous routes platform

Zona Edge Computing

VERSATILITY FOR INDUSTRIAL FACILITIES



Industry 4.0

- Dynamic sensing for industrial site (predictive) maintenance
- Remote inspections
- Routine operations at hazardous locations (toxic gases, radioactivity, etc.)
- 3D digital twin capture
- Ultra precise manufacturing



Surveillance

Complementing surveillance teams:

- Augmented surveillance
- Semi and autonomous rounds
- Remote inspection in hazardous situations/locations
- Air and terrestrial coordinated surveillance



Logistics

- Packet placement and picking at warehouses
- Autonomous inventorying and searching
- Automated quality control
- Classification prior to shipment
- Last mile delivery (via road/air)

5G is key for robot's real time reactions to dynamic environments or unforeseen events

It's demo time !

alisyys

 Telefónica
Ingeniería de Seguridad

 Telefónica



Yesterday it was unthinkable, today it is 5G

