Watchbot Xplorer: Robot Inspector Valdemingómez Technology Park









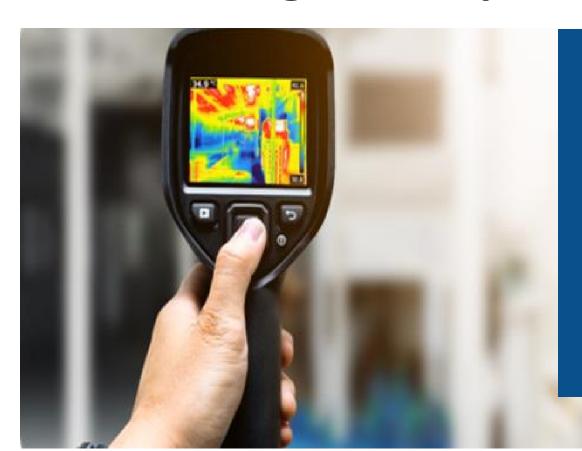








Challenges in inspection and surveillance



- Low recurrence of data collection.
- High Operational Costs for qualified technical personnel
- Hazardous areas for people
- Repetitive tasks. Low automation
- High intensity of working hours for staff.



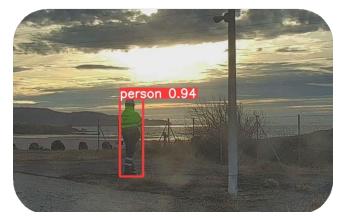








Examples of the Robotic Surveillance and Inspection Solution



Intruder detection



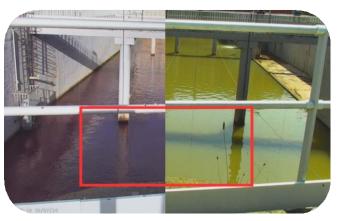
Thermographic detection



Gas detection



Analogue instrument reading



Anomaly detection with Al



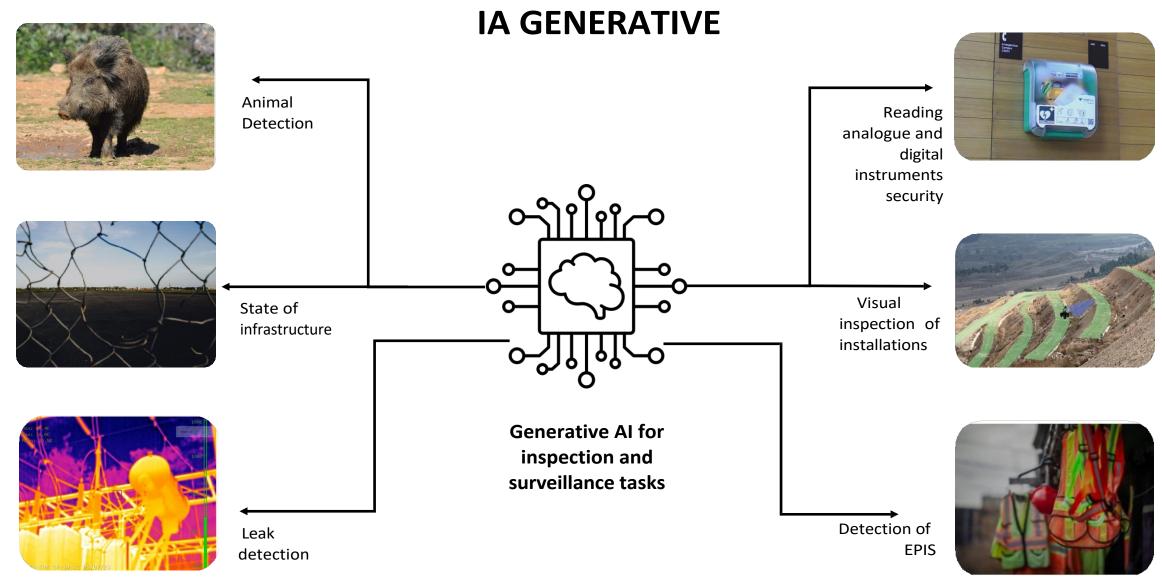






















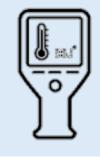
Features















Automatic recharging and 8 h of autonomy

Operation under adverse weather conditions Temperatures between -30 and 35°C, Light rain and dust

Autonomous navigation with the possibility of teleoperation

Indoor/Outdo or Operation

Thermal imaging cameras and OGI

Suitable for all types of terrain

Platform for management

















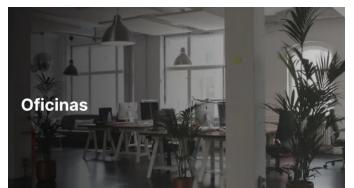










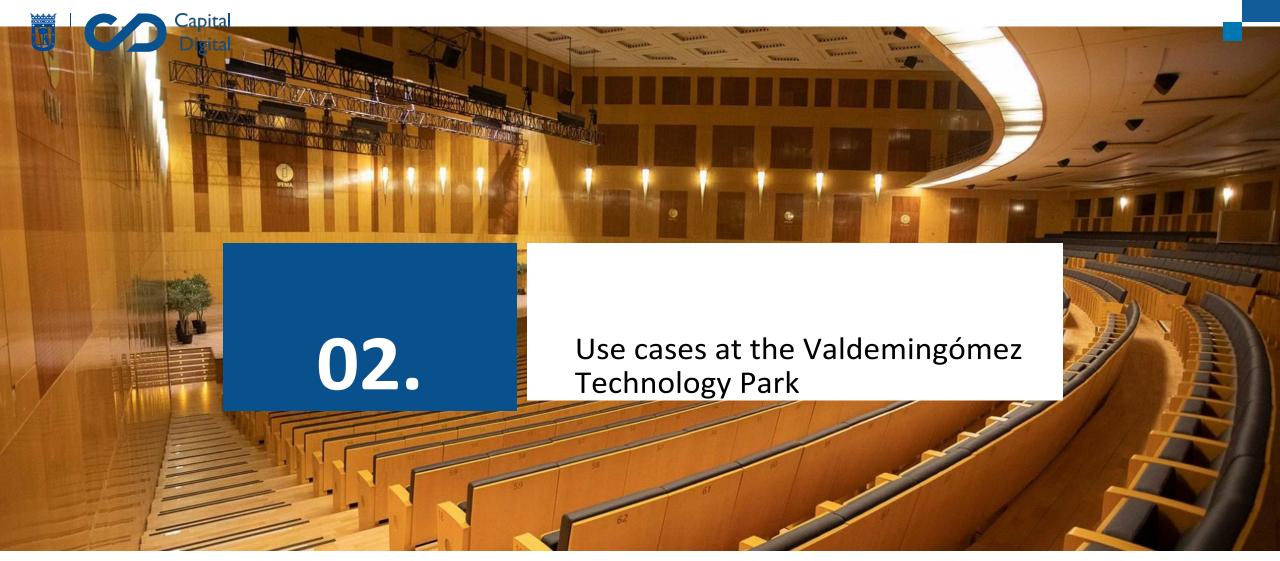
















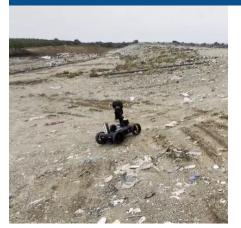








EMISSIONS ANALYSIS





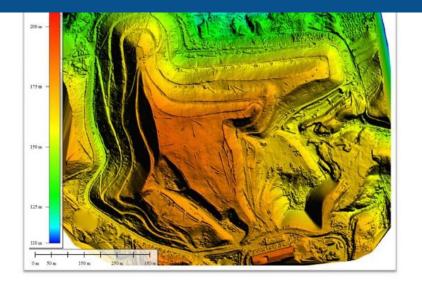








SLOPE MOVEMENT CONTROL







Biogas Treatment Plant



