

ECODRONE: Hazardous Gas monitoring with IoT enabled Drone in Underground Tunnels and Cavities

by



Perforaciones Noroeste



Underground mines and tunnels are characterized by tough working and hazardous environmental conditions. In such environments, serious accidents may occur due to sudden risks caused by toxic gasses, dust, dangerously flammable gasses or low-oxygen conditions. Ecodrone will develop novel robotic and IoT technologies to be integrated into a multi-gas sensor platform, for automating hazardous gasses concentration measurement in hard-to-reach places. A system prototype will be demonstrated in an underground tunnel facility. Therefore, the adopter will leverage the developed solution for improving the currently used approach on gas monitoring activities, whereas the technology providers will have the opportunity to enter a new market with strong exploitation potential.

Vertical sector addressed

- ICT

Challenges tackled by SMEs

- New Innovation Technologies
- IoT
- Health and Safety

Key actions addressed

- KA 5
- KA 6

MINE-Demo scheme

