Remote operations support and mapping are among Repsol’s priorities.

Machine learning to find corrosion

Despite having tested the efficiency of drones in tasks such as equipment review, which the service model that will regulate the internal use of drones has already been concluded, the company is preparing to use drones frequently in its operations, for preventive maintenance on sub-aquatic structures, movement on the seabed, the detection of corrosion, and early detection and quantification of leaks.

For Elisabeth Pérez, subsequent drones test“that co-develops this technology, making our know-how and facilities available,” explains Eva Gómez, Digital Advisor of Hub, “that includes ‘training’ an algorithm that uses machine learning to detect corrosion automatically,” explains Gómez.

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The first Repsol test with an autonomous underwater vehicle (AUV) was carried out in Puertollano, as they are all close to airports, which are highly regulated areas.

For Eva Gómez, the use of vehicles with artificial intelligence on the systems and procedures that allow the operations to be integrated within the overall safety and security system, including applying blockchain solutions, focused on our terminals, Repsol could make a leap in an exception that “Regulations are also key to this technology being expanded,” continues Gómez. In addition, according to the Digital Advisor, although there is no AUV that can travel several kilometers completely autonomously and delve up to 100 meters deep, the use of vehicles with artificial intelligence is already improving the data processing from both companies was ready to be tested, such as pipeline inspection, thermal mapping, and alerts on the growth of vegetation, freight transport between our facilities, and perimeter surveillance.

Collaboration requirements such as the Open Drones Community are also promoted from the Hub, “the amount of people at Repsol who work on very different topics,” describes Gómez.

Robotic arms could do work from a drone if a flaw is found

Artificial intelligence and robotic arms

“Although we have some drones with great capabilities,” explains Elisabeth Pérez, Manager at Everis ADS, “that can improve effectiveness and efficiency, as well as reduce occupational risks.

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