



Press Release

Nantes, France, 1st December 2023



ELWAVE wins a place in the NATO - Defence Innovation Accelerator for the North Atlantic (DIANA) 2023 for undersea sensing and surveillance and ultimately aiming to equip NATO naval forces.

Following a highly competitive selection process with more than 1300 applicants globally, NATO has announced on the 30th November 2023 that ELWAVE has been selected to join its DIANA accelerator program for the development of dual-use deeptech solutions. ELWAVE is the sole French company to have been selected.

ELWAVE will perform initial testing and evaluation of its biomimetics electric-based CEDAR (*Controlled Electric Detection And Ranging*) technology with the NATO Center for Marine Research and Experimentation (CMRE) at La Spezia, Italy, for laid and buried mines and UxO detection.



Clockwise from left: Octopulse sensor, Octopulse sensor integrated into observation-class ROV, and electrical impedance data chart showing anomalies and classification.

Right: CMRE-NATO facility (La Spezia, Italy)



Mr. Pierre TUFFIGO, ELWAVE's Chief Executive Officer, stated "ELWAVE is very proud to have been granted an award at the 1st NATO DIANA challenge. Being one of only 44 recipients among the more than 1300 proposals and the sole French recipient constitute a significant demonstration of the value of our patented biomimetic CEDAR (Controlled Electric Detection And Ranging) technology for dual applications in underwater sensing and surveillance. DIANA



is a great opportunity for ELWAVE to gain access to NATO experts and navies to accelerate our growth”

About ELWAVE’s CEDAR® Technology

CEDAR® (**C**ontrolled **E**lectric **D**etection **A**nd **R**anging) is the name of ELWAVE’s patented biomimetics active electrics technology.

It replicates the “active electro-location” perception mode used by certain weakly electric tropical fishes living in turbid and cluttered waters in Africa and South America. In this challenging environment, vision and acoustic perception are ineffective. Natural evolution has led these fish to develop a dedicated perception mode. By sensing variations in their self-generated electric field, they obtain an electric image of their environment that allows them to avoid obstacles, evade predators and catch prey.

CEDAR® technology is embedded into the compact OCTOPULSE sensor for the detection and characterization (size, shape and electric nature) of any metallic or non-metallic objects (mines, UXO, pipelines and cables) lying on the seabed or buried in the sediment.

About ELWAVE

ELWAVE is a deep-tech company established in 2018 in Nantes, France. ELWAVE commercializes high-level academic work from the Biorobotics Laboratory of Mines-Telecom Atlantique Institute (IMT Atlantique), who performed the initial research on the “active electrolocation” perception mode.

ELWAVE is the first and only company in the world developing and commercializing detection systems based on the “active electrolocation” perception mode.

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