

JOINT PRESS RELEASE

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ONERA and TRAAK finalize the evaluation of the EDA's APOS-UE (Advanced Position & Orientation System for Urban Environment) technologies

The second phase of experimentation of the APOS-UE Project (Advanced Position & Orientation System for Urban Environment) of the European Defence Agency has just been completed at the French Army's Urban Warfare Training Centre (CENZUB). This important milestone successfully closes the technological evaluation program for the geolocation of the oldier moving indoors without the use of satellites.

Within the framework of this program supported by the European Defense Agency (EDA), the French Aerospace Lab ONERA, in partnership with the French start-up TRAAK, has evaluated several technologies aimed at precisely locating a soldier moving inside buildings. While outdoor geo-positioning based on satellite networks is a proven and effective solution, the challenge is to develop technologies capable of geo-locating and orienting a soldier moving within an indoor space, as a complement to the GNSS system.

Under the supervision of the French Defence Procurement Agency (DGA), ONERA organized, planned and managed this scientific test campaign. Two test phases took place at CENZUB. The first was in 2020 and the second has just been completed end of September this year.

To perform these tests, ONERA relied on the expertise of the French start-up TRAAK, which specializes in the R&D of innovative custom geolocation sensors. TRAAK has provided a reference system to characterize the performance of each sensor developed by the APOS-UE project partners. TRAAK used a custom version of its TRAAK HPv2 product to provide a high accuracy (decimeter precision) real time tracking system.

These evaluations have allowed on one hand to test 6 different types of technologies (inertial, optical, data fusion, ...) in operational situation with very promising results and on the other hand, to promote and boost the exchanges between operational units and European technological contributors (Italian, Spanish and French in particular)

"The success of this test campaign shows how relevant it is for the EDA and DGA to rely on ONERA in its role as a government expert. Although these technologies are still at a very early stage, ONERA's teams have made it possible to confront these innovative technologies with operational requirements. This success is also due to the excellence of the French start-up TRAAK, its ability to provide innovative solutions and the adaptability of its teams," commented René Mathurin, ONERA's Defense Director .

"The combination of the chosen technologies allowing an excellent level of accuracy in 3D, the adaptability to any environment as well as the speed of implementation of a reliable solution were as many assets which reinforced ONERA in its choice to trust our teams. With this support, TRAAK reaffirms its commitment to institutions by offering tailor-made, reliable solutions that can be adapted to all structures" commented Thomas Duroyon, CEO of TRAAK.

About ONERA, the French aerospace research center

ONERA is the French national laboratory for aeronautics and space R&T, staffed by 2000 people. Under the supervision of the French Ministry of Armed Forces, ONERA has an annual budget of 237 million euros, of which more than half comes from commercial contracts. As the French expert in aerospace technologies, ONERA

prepares tomorrow's defenses, meets the aerospace challenges of the future, and contributes to the competitiveness of the European aerospace industry. ONERA masters all the disciplines and technologies in its aerospace fields. All major civil and military aerospace programs in France and Europe contain "DNA" from ONERA: Ariane, Airbus, Falcon, Rafale, missiles, helicopters, engines, radars, etc.

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About TRAAK

Young engineering and services company created in February 2020, TRAAK develops, prototypes and produces positioning and/or physiological/environmental monitoring sensors for the Industry, Health, Security and Defense markets with a custom design and 100% internalized in France. TRAAK answers security (personnel, goods, sites), productivity or research issues by allowing the generation of reliable location and/or biometric data when off-the-shelf solutions do not allow it. Its technical expertise and its understanding of the contexts and the importance of the environments where its customers operate allow it to offer quickly and discreetly innovative and uncompromising tailor-made solutions.

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