

Press release: VASCREEN

Sophia Antipolis, France - July 29, 2022

VASCREEN is a new innovative solution to detect potentially dangerous and illicit substances in luggages and goods.

VASCREEN is an alternative to current solutions such as canine screening, X-ray, and ETD which have relevant drawbacks, they are expensive, intrusive, not efficient, and depend on the interpretation of the humans who operate them.

VASCREEN is a solution that scans luggages based on a radically new Multi-Detector Differential Mobility Analyzer (MDMA), coupled with an automatic air sampling system supported by Deep Learning (DL) recognition algorithms.

VASCREEN has significant advantages, including a high detection rates of over 90% and a low false alarm rate, as well as the ability to detect unknown or novel substances. Moreover, VASCREEN is a cheaper, automatic, and a non-intrusive alternative.

VASCREEN aims to be implemented at checkpoints of airports, hospitals, and industrial plants, as critical infrastructures.

This project was born from the collaboration of two European start-ups: Ezako and MION. Ezako will be in charge of the Artificial Intelligence part and MION of the hardware part.

Ezako is specialized in artificial intelligence. EZAKO is the creator of Upalgo Anomaly Detection, a detection software based on Deep Learning to detect abnormal behaviors and classify events with remarkable ease and scalability that perfectly matches the needs of VASCREEN. MION is targeting the development of vapor detection technologies focused on the security and defense sectors. MION has validated its vapor detection technology in various scenarios for more than 15 years, however the proposed concept based on non-targeted analysis is a new challenge with detection capabilities much higher than the current solutions.

To be launched in the best conditions, the VASCREEN project has been selected to the SecurIT program. SecurIT is a European program that helps and financially supports projects of advanced technological solutions in the security field. The program also provides access to an extensive network of partners across Europe. This program supports access to the market but also helps in the realization and validation of prototypes, as the one proposed at the end of the project in MION's facilities in Spain.

This project has received funding from :



SECURIT



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101005292".

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