

THE PROJECT

Project iFLOWS aims to develop a novel framework for the effective and uninterrupted screening of postal/courier flows involving all actors across the transport chain. The main concept of iFLOWS is based on a multi-tiered approach to screening of letters and parcels, enhancing cross-organisation collaboration and intelligence and upgrading the threat, illicit material and dangerous substances detection process.

PREVENTING AND FIGHTING ILLICIT MATERIAL AND DANGEROUS SUBSTANCES IN POSTAL AND COURIER SERVICES FLOWS IN EU AREAS IS OF TOP PRIORITY

iFLOWS proposes a unique approach to assist customs, police and postal/courier services in preventing and detecting such crimes by improving operational readiness, enhancing situation awareness, reducing detection time, and achieving operational efficiency and superior mission performance.



THIS IS THE MAIN SCOPE OF IFLOWS.

There is a wide range of potential threats that can be introduced into a facility by way of the mail centre. The screening process must be able to identify all of the threats and eliminate or reduce the risks without hindering postal/courier flows.



Get Updates on Future Project Advancements

Contact the project at:

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iFLOWS

Advanced technologies for scanning and detection of illicit material for postal services and express courier flows



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PROJECT OBJECTIVES

SCIENTIFIC & TECHNOLOGICAL OBJECTIVES

To deliver a novel THz multispectral scanning system based on Quantum Cascade Lasers and absorption of plasmonic structures with advanced detection performances

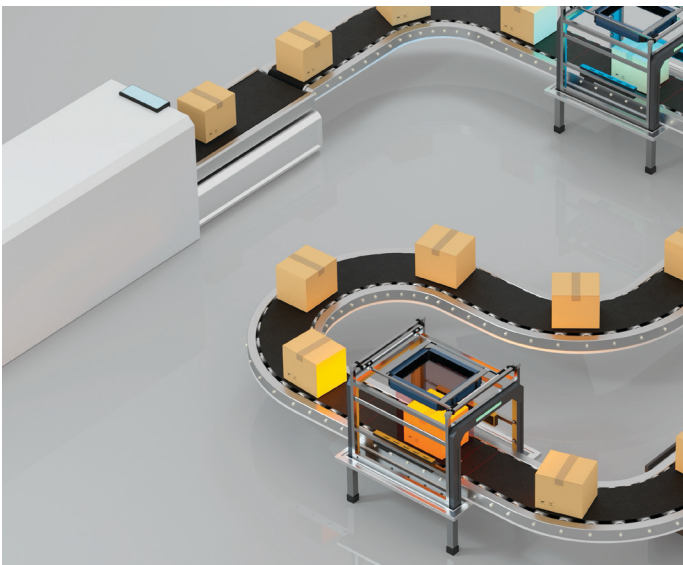
To deliver a novel UWB Scanner for non-intrusive detection of RFID elements in parcels and letters

To deliver an advanced computer vision feature extraction component that upgrades current detection capacities

To deliver a novel Dark web and Social Media Alerting Tool for enhanced intelligence

To deliver a novel Risk & Threats Assessment Tool for improved risk assessment and preparedness

To deliver enhanced C4I capabilities - Command, Control, Communication, Coordination and Intelligence extraction

The logo for eiflows, featuring a stylized 'e' icon followed by the word 'iFLOWS' in a bold, white, sans-serif font, all set against a dark blue background.

PROJECT CHALLENGES

iFLOWS Will Design, Develop, Integrate, Test And Validate A Novel Multi-Tier Synergistic Toolkit that will address the following challenges:

1 Identify CBRN (Explosives and Biological) threats inside envelopes and parcels, via imaging techniques and chemical analysis, without hindering the flow of packages

2 Identify narcotics & fake pharmaceuticals inside envelopes and parcels, by performing through-parcel chemical detection, without hindering the flow of packages

3 Identify fake identity documents & large amounts of cash in envelopes and parcels in real time without opening the post, taking advantage of novel security features embedded in said items

4 Identify composite and polymer weapons and parcels, by performing through-parcel chemical detection, without hindering the flow of packages



TESTING AND VALIDATION

iFLOWS involves integration and continuous testing and validation activities in lab and in small scale field setup. As such, all scanning systems and intelligence services shall be stressed against detecting threats, risks and illicit material and dangerous goods in representative use cases that mimic postal/courier flows and within the concept of operations of customs, police and postal/courier services

ENHANCING EU DETECTION CAPABILITIES OF DANGEROUS AND ILLICIT GOODS TRANSPORTED WITHIN POST AND PARCELS FLOWS



PROJECT CONSORTIUM

The force behind the project

