



## Project Information

**Project Name:** SAUST (High-Resolution Vapour Screener for Automatic and Fast Baggage Scanning at Airports)

**Funding Programme:** Horizon Europe

**Duration:** 24 months

**Budget:** 1 426 993.65€

**Consortium:** A multidisciplinary team of SMEs, law enforcement agencies, and research institutions from across the EU, including MION, STAM, EZAKO, KEMEA, Guardia Civil and FPI

**Objective:** Develop a TRL7 operational prototype for customs and border checkpoints to screen belongings by advanced vapor detection technology



## Our Mission

To revolutionize the way baggage are screened, making travel and trade safer, faster, and more secure. SAUST aims to protect people, economies, and ecosystems by providing innovative technology that strengthens customs and border control capabilities.

## Stay Connected

Join the journey and stay updated with our latest developments, events, and milestones.



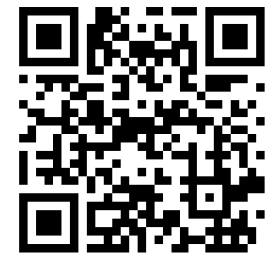
SAUST EU-funded Project



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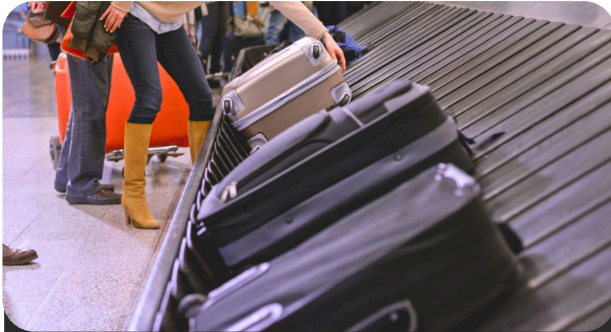
**High-Resolution Vapour  
Screener  
for Automatic and Fast  
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## About SAUST



### The Future of Screening

A groundbreaking baggage screening technology specifically designed to detect illegal or illicit substances, with a focus on identifying drugs, including synthetic drugs and new psychoactive substances (NPS).

SAUST screening technology is based on a high volume air sampling and a DMA (Differential Mobility Analysis)-based analysis technology with the capacity to detect ultra-low vapor concentrations in complex items such as baggage. This vapor-based concept is non-intrusive, affordable, automatic (no need for human interpretation), and efficient which is suitable for airport screening.

## Why Choose SAUST?



### Unmatched Speed

Rapid screening of up to 30 items in under 4 minutes



### Seamless Process

Non-intrusive screening preserves baggage integrity and privacy



### Accuracy Redefined

Detection rates exceed 80%, with false alarm rates below 5%



### High Versatility

Deployable for Use in airports, public administration checkpoints, critical infrastructures, customs facilities, and beyond



### Proven Reliability

Successfully tested baggage items in a laboratory setting

## Technical Highlights

- **Detection Sensitivity:** Sub-ppq level. Sensitivity required for bulk screening
- **AI-based Analysis:** False Alarm Rate < 5%
- **Open Database:** With a wide library of threats
- **Technology Readiness:** TRL7 at the end of the project, ready for product development

## How SAUST Makes a Difference

### Strengthens Border Security

Enhances the ability of customs to detect illicit drugs and contraband.

### Protects Public Health

Intercepts harmful substances like synthetic opioids and New Psychoactive Substances (NPS), safeguarding communities from addiction and abuse.

### Boosts Economic Integrity

Reduces smuggling-related revenue losses, supporting legitimate trade and protecting markets.

### Speeds Up Processing

Minimizes delays for travelers and goods with fast and efficient screening technology.

## Beyond Detection

**SAUST is more than just a screener.** It's a comprehensive solution tailored to meet the demands of customs and law enforcement agencies.

By combining advanced technology, data-driven insights, and operational efficiency, SAUST sets a new standard in border management and security.