



# Industry & Research Days

## Concept Note



Security Delta (HSD), The Hague Netherlands



6 – 8 September 2022



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## Summary

Innovation – Law Enforcement Agencies' Dialogue (i-LEAD) project, coordinated by the National Police of the Netherlands, is a network of police forces, funded by the European Commission under the Horizon 2020 Programme. It is a project that belongs to a group of Coordination and Support Actions.

Among other things, the project aims to identify LEAs' needs and priorities in order to make recommendations on relevant resources that can meet those needs and improve their work capability. As a result, I-LEAD conducts periodic research on tools and solutions that are available on the market and those that are still being developed that may be ideal for addressing the pertinent needs of practitioners.

## Overview

The i-LEAD project, in collaboration with European partners, is organising **Industry & Research Days in The Hague, Netherlands, from September 6th to 8th, 2022**. The event's goal is to gather information about available technology and innovative solutions for law enforcement agencies. Representatives from industry and research will present technologies and innovative solutions related to the scope and objectives of i-LEAD at the meeting.

We are pleased to announce a call for applications for companies that can present ready-to-use or in-development solutions in the following areas:

- 
1. Mobile Hijacking
  2. Vehicle Mitigation
  3. Crime Scene Recording
  4. Online Investigation
    - 4.1. Online Child Sexual Exploitation (OSCE)
  5. Public Order & Counter-Unmanned Aircraft Systems (C-UAS)

[Click here for more details on the topics](#)

[Apply to Present!](#)

**i-LEAD is a project coordinated by the National Police of the Netherlands**



## Topics for Industry & Research Days 2022

The following suggested technologies derive from the priorities that practitioners deemed most important for their work through dedicated workshops and surveys. Therefore, we invite companies and projects to apply if they have expertise in the areas highlighted in the descriptions below:

### 1. Mobile Hijacking

- **Surveillance Software for Satellite Phones and Encrypted Applications** - current telephone tapping technologies have grown obsolete, and LEAs seek more effective methods for intercepting and monitoring satellite communications. LEAs require (unmanned) monitoring technologies for real-time coordination with other countries and to hinder culprits' ability to move freely between those countries. The system should also allow for real-time information exchange about (possible) suspects.
- **Open Source Intelligence (OSINT) in Numerous Languages** - LEAs demand OSINT that allows for easy data interchange and simultaneous interpretation, resulting in useable intelligence in multiple languages.
- **Speech-to-text transcription software** - Audio transcription software that swiftly converts audio and video files to text is required by practitioners.
- **ANPR software** – Enhanced Automatic Number-Plate Recognition (ANPR) software is required, as well as cell site analysis software that is compatible with portable handheld devices.

### 2. Vehicle Mitigation

- **Safe-stop Vehicle Mitigation Technology** - Versatile software that offers remote access and control of target vehicle electronics like engine shutdown and brake locking, as well as the vehicle's audio and video functions. The program should be able to slow or stop the target cars swiftly and safely, regardless of the vehicle type.
- **Portable Vehicle Immobilisation Devices** - Practitioners want a more compact alternative to present car immobilization techniques.
- **Risk-Flagging Technology** - In order to ensure safety when bringing vehicles to a halt, officers need additional tools to alert nearby motorists and pedestrians of their presence and allow them to evaluate dangers.

### 3. Crime Scene Recording

- **Crime Scene Quantitative 3D Capture** - (focus on laser scanners, photogrammetry and structured lights in application and training). Technologies should improve accuracy and functionality while avoiding scene contamination, with collected data useful for subsequent investigation and judgment.
- **Forensic Intelligence Platform** - This platform should integrate CS documentation with an electronic chain of custody, allowing for real-time collaboration, data sharing, and information exchange from the crime scene to other expert stakeholders for consultation and decision-making.
- **First-Assessment Robots** - These robots will be used in place of humans in dangerous and CBRN-contaminated scenes where contamination risks are high.

## 4. Online Investigation

- **Tools for Facial Recognition and Synthetic Image Generation** - Law enforcement agencies are interested in both creating synthetic images (for training facial recognition experts and conducting investigations) and identifying them (e.g. detecting a face in a social media account is fake).
- **Violent Content Detection** - LEAs also require automated detection tools for detecting violence in images and videos in order to ensure public safety, so that any violent activity generates an automatic security and police alert.
- **Natural Language Processing** - tools for processing unstructured data and analysing speech and/or text are required by criminal investigators (Entity extraction).
- **Tools for Virtual Agents** - Practitioners require technical solutions that enable the creation of virtual identities in online private channels/groups (e.g., Telegram, Snapchat, Discord, WhatsApp, etc.) and assist investigators in performing tasks such as capturing communications, identifiers, annotating, exporting, and creating reports.

### 4. 1. Online Child Sexual Exploitation (OSCE)

- **Triage Tools** - Database Storage Solution capable of efficiently and automatically analysing massive amounts of data. The tool can/should be enhanced with AI capabilities to categorize and grade indecent content and chat logs in different languages and accents, as well as determine whether the content triaged is of an adult or a minor using facial recognition.
- **Centralised CSE Tools Validation Software** - One of the practitioners' requirements is quick and efficient CSE-vetting software managed by a central EU body, allowing for the rapid implementation of newly validated tools across the EU.
- **Darknet De-Anonymisation Software** - To assist CSE practitioners, software or tools are needed to monitor and detect CSE activities such as live streams, online conversations, or message services, as well as to immediately ban websites and servers.
- **Cloud Storage Decryption Software** - When ISPs are unwilling and slow to answer to pleas for assistance, cloud storage decryption software can be used to intervene and gain access to a suspect's cloud storage.

## 5. Public Order & Counter-Unmanned Aircraft Systems (C-UAS)

*Whilst C-UAS is one of ENLETS' Technology Interest Groups, it is a pertinent topic that will be addressed under i-LEAD's Public Order practitioner group for this event.*

- **Detection, Identification, Tracking and Neutralisation** - Counter-UAS solutions often include one or more of these features. As a result, the technologies demonstrated should cover the entire chain of counter-unmanned aircraft systems, highlighting available counter-drone technical options for law enforcement agencies. Radio Frequency, Radar, Acoustics, Optics, Multi-Sensor Systems, Jamming, Spoofing, Kinetics, and other technologies should be used to get the required results.
- **Device Neutralisation in Built-up or Congested Areas** - The safe neutralisation and retrieval of unmanned aircrafts in congested regions is a significant problem for LEAs. As a result, they need technologies to securely neutralise and secure UAS flying near critical infrastructure, sensitive locations, and other densely populated places.

## 5. Public Order & Counter-Unmanned Aircraft Systems (C-UAS)

- **Using Facial Recognition to Track and Monitor Known Offenders** - Practitioners hypothesized that facial recognition could be used to identify people who had previously been identified as offenders, and that it could be useful in identifying individuals who had the potential to cause disorder and incite others to do the same.
- **Tasking and Decision Making with Artificial Intelligence** - Practitioners would like to use Artificial Intelligence's tasking and decision-making capabilities to allow public order police officers to deploy personnel and equipment to the right place and right time, potentially preventing a hostile situation from occurring.
- **Automated Communication System for Public Order Enforcement** - Practitioners agreed that there is frequently too much information to consider, assess, and analyze following a large-scale public order operation. The ability to filter out the most important information would be extremely beneficial and time-saving for law enforcement agencies.

## Practical Guide

<b>Organiser</b>	<b>i-LEAD Project</b>
<b>Co-organiser</b>	<b>Hague Security Delta</b>
<b>Date</b>	<b>6 – 8 September 2022</b>
<b>Location</b>	<b>The Hague, Netherlands</b>

The event will be organized into stations based on the Practitioner Group, where invited companies will set up, showcase, and demo their specific technologies. Furthermore, in dedicated breakout sessions, each company will have the opportunity to present its tools or services to a larger audience.

### For Whom?

This event will bring together key police officers and other LEAs from across the EU, particularly those involved in the i-LEAD project. EUROPOL, INTERPOL, and FRONTEX are among the organisations invited. The event will be publicised through a variety of channels, including ENLETS, the Europol Platform for Experts, and the CERIS Community.

The event will provide an excellent opportunity for networking and strengthening the community of partner and stakeholder organisations.

### Event Cost

The event, including refreshments, is free to attend, but registration is required.

### Travel and Accommodation

Only members of the i-LEAD project are eligible to cover project costs. Industry representatives will be expected to cover their own expenses.

### Invitation Process for Companies and Research Organisations

To shortlist the companies and institutions that want to participate in the event, the following procedure will be followed:

- 1 Fill out and submit the brief application form with your organisation's information.
- 2 Attach a 3-5-minute introductory video/presentation to your tool/service.
- 3 Practitioners will review and shortlist the videos.
- 4 Shortlisted companies will receive an official invitation to the event.

Date	Action
23 July 2022	Deadline for companies to submit applications and introductory videos for their tools or services
26- 29 July 2022	Shortlisting of companies
1 – 5 August 2022	Official invitations sent for i-LEAD Industry Days
6- 8 September 2022	Industry & Research Days

**All applications must be submitted by July 23, 2022 and will be reviewed by LEA practitioners.** Invitations to the i-LEAD Industry & Research Days will be issued based on practitioners' preferences for the best tools to improve their work activities and meet their needs.

### Why Attend?

This is an opportunity to:

- Directly present solutions to representatives of law enforcement agencies from many European countries.
- Learn about the needs and requirements of practitioners.
- Learn how to improve your technology to better meet the needs of practitioners in the field.
- Discuss potential new projects and initiatives.
- Contribute to a continuous dialogue and sense of community among EU law enforcement.

To learn more about this event, please contact:

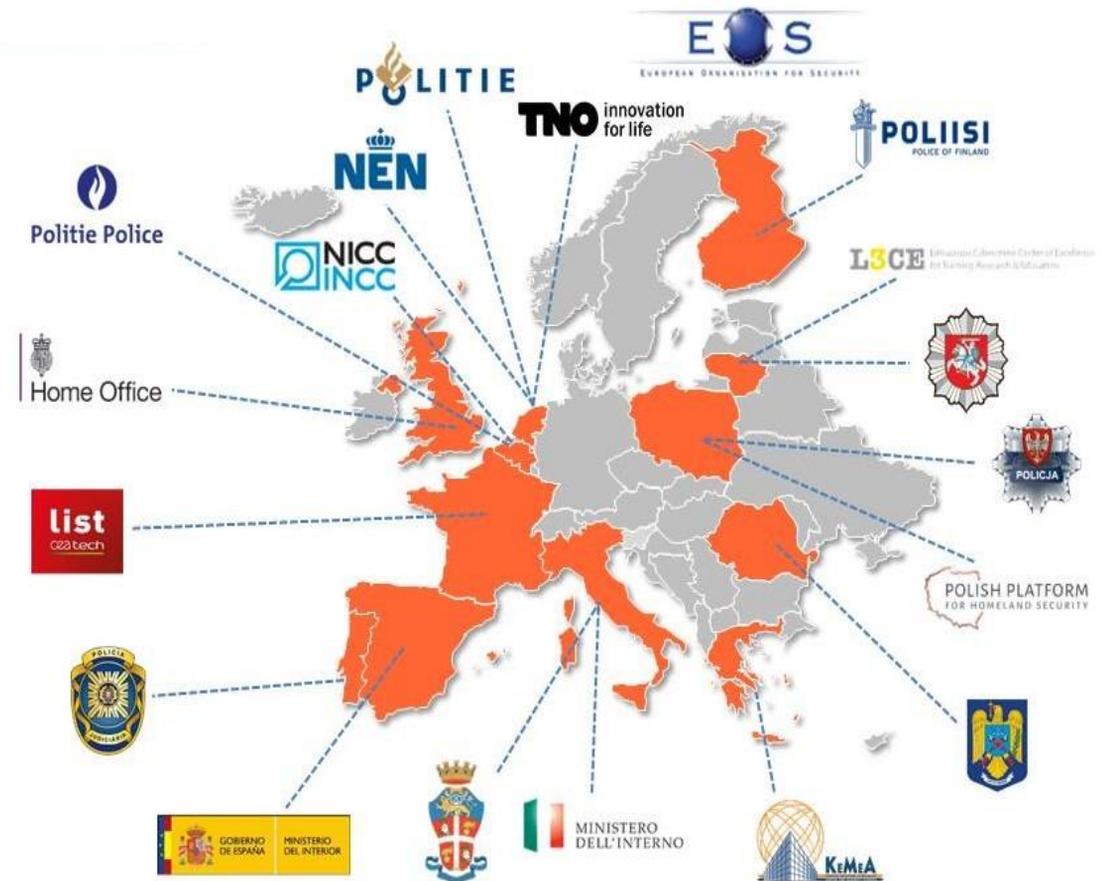


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**[Apply to Present!](#)**

# i-LEAD

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