Industry & Research Days Agenda

Key	Research Organisation
	Company

Practitioner Groups
Mobile Hijacking - MH
Vehicle Mitigation - VM
Crime Scene Recording - CSR
Online Investigation - OI
Online Child Sexual Exploitation - OCSE
Public Order & C-UAS - PO

Day 1 - 6 September 2022	
13:00 – 13:30	**Coffee, Snacks & Icebreaker**
13:30 – 14:30	**Welcome & Opening Speeches** Patrick Padding - i-LEAD Project Coordinator Jannine van den Berg - Netherlands Police Deputy Chief Commissioner
14:30 – 14:45	**Coffee Break**
14:45 – 16:30	**Research & Technology Presentations (45', 30', 30')**
INSPECTr (OI)	Innovation Room 1 (main auditorium)
U-Query (CSR)	Room 06.35
LOCARD (OI)	Education Room 1A
Automotive Control Platform (VM)	Education Room 1B

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Unival DroneWall – USG Spectrum Guard (PO)	**Education Room 2**
X-Sensor – Predictive Situational Awareness (CSR)	Boardroom
16:30 - 16:45	**Coffee Break**
16:45 – 17:15	Message from The Hague's Deputy Mayor and Day 1 Summary
17:30 – 19:30	Networking & Refreshments
Day 2 – 7 September 2022	
09:00 – 09:30	**Coffee & Welcome Speeches**
09:30 – 11:15	**Research & Technology Presentations (45', 30', 30')**
BLKA (OI)	Innovation Room 1 (main auditorium)
MoNA – Mobile Network Analyzer (MH)	Room 06.35
DEVERYWARE (OI)	Education Room 1A
INspectre (OI)	Education Room 1B
Autocrime (PO)	Education Room 2
AviaTor (OCSE)	Boardroom
11:15 - 11:30	**Coffee Break**
11:30 - 13:15	**Research and Technology Presentations (45', 30', 30')**
AMBOS (PO)	Innovation Room 1 (main auditorium)
Myst Works (VM)	Room 06.35
eyesCloud3d (CSR)	Education Room 1A
AIRA (OCSE)	Education Room 1B
Tacticon Agnet (MH)	Education Room 2
M4D@CERTH (OI)	Boardroom
13:15 – 14:15	**Networking Lunch**

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14:15 - 16:10	**Keynote speeches**
14:15 – 15:15	**Corvers Procurement Services & European Assistance For Innovation Procurement (Q&A)** Stephan Corvers + Anabel Peiró Baquedano Innovation Room 1 (main auditorium)
15:15 - 15:25	**Coffee Break**
15:25– 16:10	**EACTDA and the Tools4LEAs project** Eva Škruba Innovation Room 1 (main auditorium)
16:10 - 16:30	**Day 2 Summary**
Day 3 - 8 September 2022	
09:00 - 09:30	**Coffee & Welcome Speeches**
09:30 - 11:15	**Research and Technology Presentations (45', 30', 30')**
First Alert (OI)	Innovation Room 1 (main auditorium)
Cyber Agent Technology (OI)	Room 06.35
Dark Web Monitor (OI)	Education Room 2
Hansken (CSR)	Education Room 1A
Vicomtech (MH)	Education Room 1B
ENLETS Messenger (PO)	Boardroom
11:15 - 11:30	**Coffee Break**
11:30 - 12:30	**Cybersecurity research and innovation needs with focus on Artificial Intelligence @ ENISA (Q&A)** Corina Pascu + Marco Lourenco Innovation Room 1 (main auditorium)
12:30 - 13:00	**Event Conclusion**

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Keynote Speakers

Stephan Corvers
Founder & CEO, Corvers Commercial & Legal Affairs

Corina Pascu
Cybersecurity Expert, ENISA

Eva Škruba
Capability Manager, EACDTA

Marco Barros Lourenco
Research and Innovation Team Lead, ENISA

Presenting Solutions

Day 1

INSPECTr is a H2020-EU funded project. As part of the INSPECTr project, the Judicial Police of the National Gendarmerie (PJGN) is working on the development of a AI toolkit that groups various service. The project representative will be presenting two solutions on NLP and Stylometry.

U-Query, an Ultinous solution, uses the latest deep learning research results to build a smart index of the videos. The index itself is about 1% of the compressed video yet it contains all relevant information that can be interesting in video analysis.

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LOCARD provides LEAs with an innovative platform for easily managing digital evidence continuity, supporting cooperation and information exchange between different jurisdictions, and facilitating criminal investigations while ensuring evidence integrity before the Court.

Together with the Dutch boutique vulnerability research company Midnight Blue, Secura developed the **Automotive Control Platform** solution for modern-day vehicle mitigation aiming to make the technically complicated process of remotely compromising a vehicle accessible to law enforcement operators in the field.

univalDroneWall | USG Spectrum Guard is a multi-purpose RF based monitoring system that can be flexibly used in a wide-area of facilities that require not only drone defense but also detection of unwanted communication such as Jammers, IMSI Catchers, through cell phones and need a cost- efficient solution that is future proof and can cover the frequency spectrum up to 30 GHz.

X-Surveillance gives the user more insights into the suspect's whereabouts and can expose an entire criminal network based on detecting smart wearables, phones, trackers and vehicles. Using **X-SENSOR**'s correlation and intelligence profiling, access can still be granted to a criminal's daily whereabouts via the detected devices. All this with a real-time remote intelligent dashboard.

Day 2 - Session 1

The **BLKA** is a pioneer in the digital collection and analysis of images of unknown suspects as the third pillar of the recognition service, aside from fingerprint and DNA-Database, to automatically identify suspects from videos by means of facial recognition, and to build up a photo collection (database) for unidentified suspects, in which retrograde identifications for old cases (cold cases) are possible.

MoNA is an analysis platform developed for the semantic analysis of mobile communication data across communication channels (eg WhatsApp) and modalities (eg audio, image), enabling investigators to comprehensively understand the content of mobile communication, despite its heterogeneity and incompleteness, in order to be able to recognize evidentiary information more quickly in the mass of irrelevant data and to avoid misinterpretations.

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Deveryware is an Expert in Technologies and Investigation Services for Homeland Security and presents the solution "Inter-lingual Comprehension independent from the Language / Detection of Imminent Threats: Transformation into Structured Actionable Data".

INspectre provides AI-enabled object detection and language detection to process text, audio and video files. Especially hate crime detection e.g. anti-Semitic language is supported by AI modules. Furthermore, INspectre was validated with law experts to provide high-quality support connecting hate crime and legal aspects to ensure prosecution.

The Autocrime platform under the ROXANNE project enhances criminal analysis capabilities by using a) Speaker verification technologies for associating voiceprints found in audio or video files with persons, b) natural language processing technologies for identifying topics, key entity etc., c) criminal network analysis for identifying communities , social influence of individuals, and d) an intuitive user interface for interacting with the Auto-crime outputs.

The **AviaTor** system facilitates LEAs to deal with the vast number of NCMEC reports in an efficient and effective way. It combines visual intelligence and targeted online research to improve the intelligence position of the investigator while dealing with these reports. Information from the reports is analysed, cross-matched and enriched, providing a means to prioritize reports and focus on the most important ones first.

Day 2 - Session 2

The German-Austrian cooperation project **AMBOS**, funded by Federal Ministry of Education and Research, was designed to develop a system, dedicated to LEAs to defend against drones in defined security areas. To this end, approaching drones were to be detected, their threat potential analysed and effective defence measures developed.

Myst Works technology is designed to be used during any police car to suspect car interaction. It can be used from speeds of 25kmph up to 120kmph over a distance of 10m. this allows operation of the darts on city roads to highways in most weather conditions (we are working on dart adhesion in wet weather).

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eyesCloud3d is a solution by ecaptureDtech, a leading image analysis and processing company whose technology allows users to generate 3D models using all types of cameras, including smartphones, obtain spectral 3D models using hyperspectral cameras, and recognize objects and people in 2D images using AI.

AIRA is a solution based on LEAP (visit website). It was developed with and for SA Office Cologne, with the specific goal of quickly and automatically detecting OCSE with AI technology. We've developed a Classifier that is trained and constantly re-trained on abstracted data, without real data having to leave the agency. It provides accuracy rates of around 90%, with False Positives around 2-3%. Due to the abstraction, any agency can re-train it.

Tactilon® Agnet is all about secure group collaboration on mobile broadband networks. It brings professional communications to your smart devices and offers you the possibility to bring your radio and smart device users to same groups. It meets the needs of public safety organizations. Staff and data necessary to an operation can be easily and securely reached, even when using different devices and technologies.

M4D@CERTH - The Multimodal Data Fusion and Analytics Group (M4D) of the Multimedia Knowledge & Social Media Analytics Lab (MKLab) of the Information Technologies Institute (ITI) of the Center for Research and Technology Hellas (CERTH) develops cutting-edge algorithms and novel solutions relevant to Multimodal data fusion, Multimedia analysis and retrieval, Computer Vision, and AI-based multimodal analytics in many Security / Cybersecurity application domains.

Day 3

First Alert detects the earliest signals of events globally from over 400,000 publicly available data sources from across 4 main areas; social media, news / blogs, sensors & deep / dark web. The AI lifts from text, audio, images & video aggregating data to identify patterns, clusters & anomalies to generate meaningful alerts. It has English, French & German versions & alerts from 150+ languages. Settings are tailored so your alerts match your mission

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Cyber Agent Technology (CAT) provides a technical tool in the area of online investigations on social media (SOCMINT) like Telegram, Snapchat, WhatsApp, Instagram, etc. It primarily assists practitioners with virtual agents with tasks such as capturing identifiers and communications in online private channels/groups, labelling and annotating, exporting and creating reports.

The Dark Web Monitor is an OSINT repository web application in which over 1.6 million domains are actively monitored for changes in content. The monitor provides insights in trends and allows for in-depth evidence gathering by allowing to go all the way to the source HTML. Our scalable system extracts entities like cryptocurrency addresses, email addresses, etc. to allow for easy filtering and sorting for relevance by the users.

Digital data is becoming increasingly important for investigating suspects and as evidence in criminal cases. With the number of new devices, apps, and channels growing rapidly, the amount of data grows exponentially. Investigators are challenged with quickly finding relevant information. **Hansken** is an open digital forensic platform that can be used to transform the way digital evidence is being stored, processed and investigated.

Vicomtech's technologies can be the backbone of security solutions addressing the following high-level gaps and needs: Speech-to-text transcription software, ANPR software, Tablet devices for use at crime scene, Drones / robotics, Tools for facial recognition and synthetic image generation, Violent content detection, Natural Language Processing, Tracking and monitoring of known offenders using facial Recognition, Tasking and Decision Making with AI.

ENLETS Messenger is a GDPR-compliant communication platform for law enforcement that integrates common messenger features with file storage. You don't even need a mobile number to sign in as the platform also works perfectly on the desktop version. Users benefit from a clear separation between different communication channels and the protection of their privacy.

Navigation at the HSD Premises

If you need help during the event, please contact one of the organisers or contact points whose badges have the O sign on a light blue background.

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