T3K.AI

LEAP

Law Enforcement Analytical Platform

Fast and reliable analysis of mobile device extractions in time and resource critical situations

SPEED UP YOUR INVESTIGATION

- Fast and reliable
- Easy to handle
- Highly compatible

Strong, reliable partner in mobile forensics

With the advance of technical development, smartphones contain more and more data, so the focussed search for evidence in mobile forensic investigations becomes increasingly difficult, leading to shortage in personnel and backlogs. With LEAP, we want to assist you in mastering big amounts of data.

Fast and reliable mobile forensic investigation

We bring artificial intelligence to mobile forensics, developing unique software solutions for the automated analysis of smartphone data extractions, to help simplify and speed up mobile forensic investigations.

T3K's analytic solutions are used by international law enforcement and immigration authorities, complementary to the most commonly used extraction toolkits.

T3K also works as service and training provider for national and international law enforcement agencies. We have developed a unique training program based on our expert knowledge in the field of mobile forensics.

Bringing artificial intelligence to mobile forensics

With the development of LEAP, T3K set out to revolutionize the analysis of big amounts of data, by automating time-consuming work with the use of artificial intelligence. Through the automated analysis process, viewing time of emotionally challenging content can be minimized.

LEAP allows the use of smartphones to identify persons, as well as to probe for possible incriminating material – for example at immigration checkpoints or in ongoing mobile forensic investigations.

Within few minutes after data extraction, LEAP will already present first meaningful information. Depending on the amount of data and contents of the analysis, a concise report focused on relevant information is created within minutes up to a few hours. The report contains the following contents among others:

- Security screenings with watchlists
- Device information
- Identity and countries (calls, messages, contacts, location data, travel routes, written languages and dialects, account data)
- Communication analysis (first/last calls and messages, longest and most frequent contacts)
- Media analysis (pictures and videos, different classes)
- Interlink analysis

Automated analysis for faster investigation results

LEAP (Law Enforcement Analytical Platform) is a software developed for agencies in need of a solution for the quick and efficient search for case-relevant data in law enforcement investigations.

Fast and reliable

Get fast results in time and resource critical situations. LEAP presents first answers within few minutes.

Easy to handle

A first inspection of the data extracted from a smartphone can be done by a case worker, to decide if further investigation should be done.

Highly compatible

LEAP enables the analysis of extractions made with different mobile forensic toolkits of leading manufacturers as well as media data imported from other sources.

Versatile use

LEAP can be used wherever quick and precise answers are needed, for example in counter-terror investigations, at checkpoints, or for the quick screening of case-relevant data in a lab.

LEAP is technically divided into three modules, each of them focussed on meeting specific demands. The modules include the following features:

LEAP.identity

Data analysis of a single extraction, determining identity data, such as country of origin, location data and travel routes, language detection, contacts and accounts.

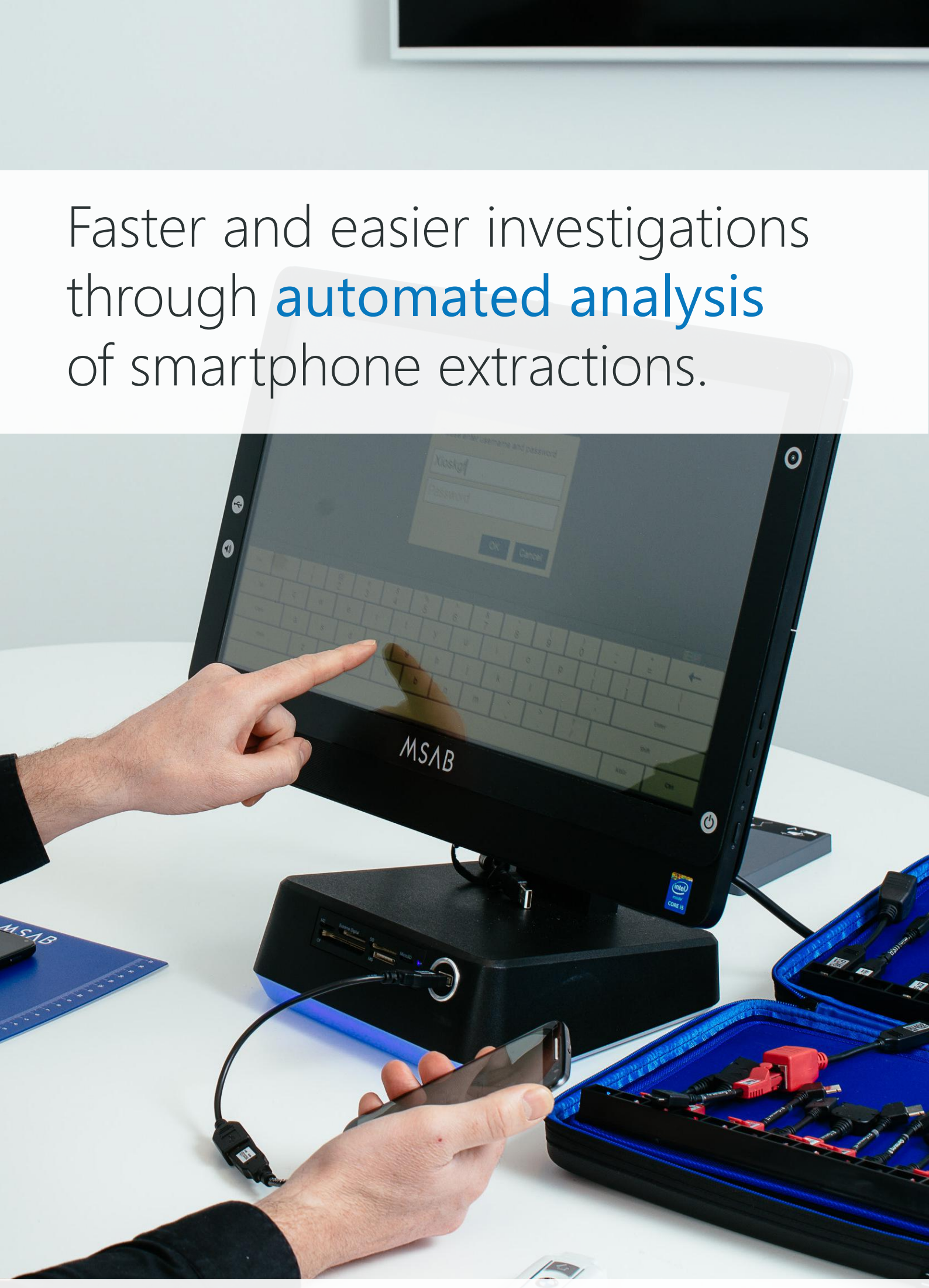
LEAP.media

Using neural networks for robust recognition of pictures and videos, categorizing terroristic symbols, weapons, drugs, travel documents, duplicate pictures and more.

LEAP.interlink

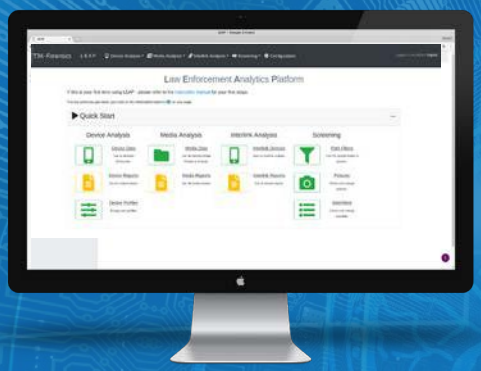
Correlation of smartphone extractions, identifying direct and indirect contact, behaviour patterns and similarities in written languages, installed apps and used data.

Faster and easier investigations through automated analysis of smartphone extractions.



Streamlined for MSAB Kiosk system.

Unique features for your examination sucess



KEY FEATURES

- Server-based solution or standalone toolkit
- Graphical user inteface (GUI) for managing extractions, cases, watchlists and reporting
- Extraction input support for UFDR and XRY Extended XML exports (including files)
- Analysis
- Standardized .pdf or .html report

Language and dialect detection

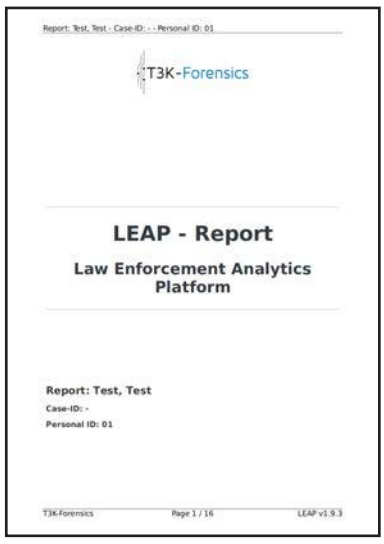
An important part of LEAP.identity is the detection of written languages. For some languages, there's also a dialect analysis carried out, for example for Arabic dialects. The automatic allocation of different dialects to certain regions and countries contributes substantially to the identification of suspect persons.

Robust image recognition

LEAP.media uses neural networks to detect and classify pictures and videos. Unlike customary image recognition, LEAP finds so-called concepts, making it possible to even recognize and report duplicates and edited images as well as classes like faces, IDs and travel documents, screenshots, terroristic symbols and weapons.

Reporting

The results of the analysis are summarized in a well-structured and concise .pdf or .html report, which is adaptable to customers' wishes, for example with traffic-light style markers for discrepancies, detailled data and advanced statistics.



Use cases

LEAP.Borders

provides a rapid background check of a person entering the country. It automatically checks languages, locations, contacts, metadata and detects media material relevant for confirming a person's identity. LEAP:borders presents the interviewer an overview of the person's home country, the travel history and searches for a plethora of markers indicating criminal behavior.

LEAP.Counterterrorism

has been developed for a terror attack scenario involving a large number of suspects and limited response time. It quickly sorts extractions, identifying persons with terror propaganda media on their phones, or detects persons who have traveled to locations indicating terroristic training. LEAP:counterterrorism is capable of correlating large sets of suspects, identifying subgroups through their communications, similar media. A statistical analysis of their applications is carried out to identify arcane communication channels.

LEAP.Narcotics

provides an in-depth background check focused on illicit substances. Production,Sale and consumption is detected through analysis of various media, text and meta data sources on the suspect's phone.

LEAP.CSA

Crimes against children are the focus of this use case. LEAP.media has been trained on real-life data in cooperation with criminal investigation organizations.The focus is on identifying criminal material with a minimal viewing time of challenging contents.

LEAP.Crime

All the above funtionalities can be combined to give a less focused, Broader background check of a person or groud of persons.

T3K.AI

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Jacquingasse 51/3, 1030 Vienna, Austria
T: +43 1 997 10 33 | E: office@t3k.ai
I: www.t3k.ai | T3K-Forensics