



Netherlands Forensic Institute
Ministry of Security and Justice

Advancing efficient policing

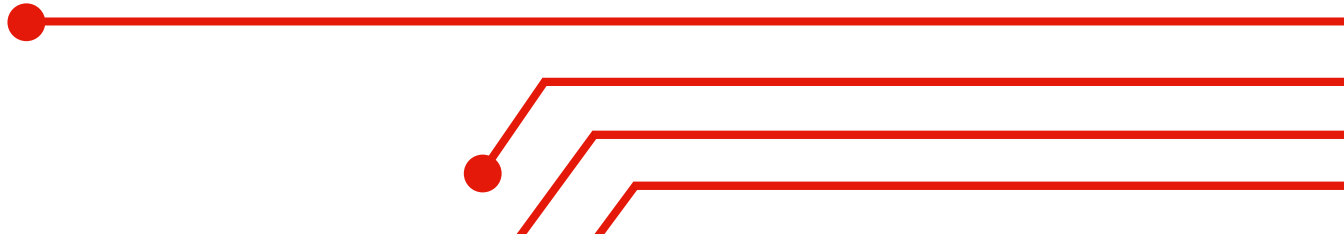
Smart forensic solutions by the
Netherlands Forensic Institute



The Netherlands Forensic Institute

Smart forensic solutions for efficient policing

The role of forensic science in the fight against crime is growing, both in guiding investigations and in providing evidence. As part of its mission to strengthen the rule of law worldwide, the Netherlands Forensic Institute (NFI) develops advanced forensic products and services to make the task of its varied client base more efficient and more effective.



Making police work easier – with new forensic products and services

In all forensic disciplines, rapid advances in science and technology are leading to the development of new, more effective methods and tools.

Laboratory on site

Such tools and methods make processes more efficient, services faster and devices more compact and portable. For instance, the NFI is increasingly developing tools that ‘take the laboratory to the crime scene’, speeding up forensic processes.

Smaller traces

At the same time, these new tools and methods are helping to improve the detection, screening and analysis of ever smaller traces at the crime scene, thus bringing to light information that can make the crucial difference in an investigation or prosecution.

Faster research results

In criminal investigations, it is often vital to be able to generate information or the results of analyses quickly in order to be able to take the investigation further. Thanks to the latest technologies, new tools and techniques are now becoming available to the police and other law enforcement agencies to make their investigations more effective and time-efficient. This development is noticeable in all forensic disciplines – from forensic microbiology (DNA), to digital forensics, forensic chemistry and forensic medicine.

Serving the criminal justice ‘supply chain’ – and beyond

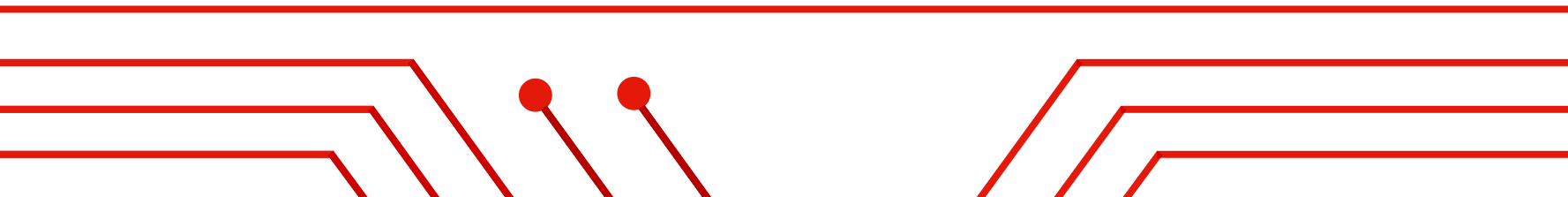
For a number of years now, the NFI has been developing a wide range of products and services aimed at helping law enforcement agencies to access policing information with high added value.

Wide range of clients

With expertise in over thirty forensic disciplines, the NFI is able to serve a wide range of organisations in the fields of law enforcement, public order and security worldwide. Most are part of the criminal justice ‘supply chain’ – the police, public prosecutors, the judiciary and defence counsel. Increasingly, however, other public order and security organisations are also interested in our work. These include intelligence services, border agencies, first-responders and regulators, as well as international bodies such as competition authorities and the United Nations.

The rewards of innovation

This policy of investing heavily in innovation has enabled us to slash our average delivery times for services by over 90%. By sharing the results of our innovations with our clients in the form of products and services, we are able to make their jobs easier and more cost-effective. And by listening closely to their needs and where appropriate entering into partnerships with them, we seek to continue to direct our research in those areas where it will have the biggest impact and enable us to best serve our clients’ needs.



Forensic products and services

The following products and services are geared towards speeding up time-consuming analysis of large amounts of data:

KECIDA: Providing advanced data analysis on request

KECIDA (Knowledge and Expertise Centre for Intelligent Data Analysis) forms part of the NFI. It provides advanced data analysis services to clients within the public order and security sector who wish to extract essential information from large quantities of digital data. KECIDA's core activities include text mining, data profiling, financial data analysis and social network analysis.

XIRAF: Analysing and searching large quantities of data automatically

XIRAF is an advanced software application that automatically analyses large quantities of data from all types of equipment at high speed and render them directly searchable. Specifically, XIRAF bundles data from digital sources, including laptops, external hard drives, mobile phones and CDs, into a central online database. Police or government investigators can then access and search this database from any location with a web browser. XIRAF also makes it possible to order data chronologically and sort images geographically.

Bonaparte: Quick identification of large numbers of disaster victims

Bonaparte is an advanced software tool for DNA matching. Whenever there is large-scale disaster or calamity, identifying the remains of victims as quickly as possible is vitally important. Bonaparte reduces the time required to fully identify victims of a large-scale disaster or calamity. It can effectively deal with large numbers of victims, and can also be used to identify human remains for Missing Persons programmes.

More and more data today that could be relevant to criminal investigations are stored on digital devices. The NFI has developed several tools that help law enforcement officers to secure and retrieve this data:

NFI Memory Toolkit II: Effectively retrieving data from electronic devices

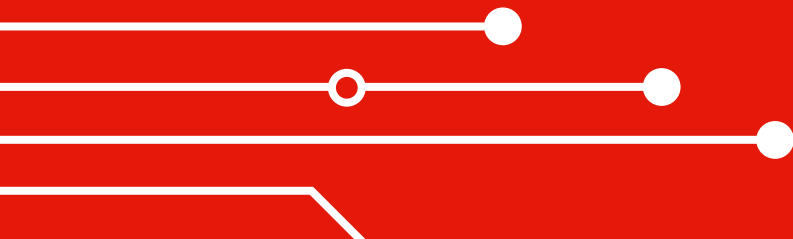
The NFI Memory Toolkit II is a universal forensic solution that enables investigators to read memory chips and potentially extract user data from devices such as mobile phones, satellite navigation devices or USB flash drives. The NFI Memory Toolkit II can even be used to recover data from damaged or password-protected devices or, in some cases, data that has been 'erased'.

Faraday Cage: Securing and accessing data stored on a mobile phone

The NFI has developed a new, more effective version of a 'Faraday cage', enabling police and other authorities to read out data from a mobile phone without running the risk of the data being changed or wiped by a criminal remotely.

Sharing knowledge

The NFI seeks to contribute to the continuous improvement of forensic science worldwide by sharing its knowledge and expertise. To this end, the NFI Academy offers a wide range of courses, workshops and training programmes for national and international clients.







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