

Issue 01

August 2021

exfiles.eu



@EXFILES_H2020



exfiles-h2020

Technical Lead

Assia Tria Ph.D.

CEA-LETI, Campus Minatéc

Project Coordinator

Dr. Klaus-Michael Koch

Technikon Forschungs- und Planungsgesellschaft mbH
coordination@exfiles.eu



Budget

€ 7 Million

100% EU-funded



Consortium

14 Partners

7 countries



Duration

36 Months

07/2020 - 06/2023

EXTRACT FORENSIC INFORMATION

for Law Enforcement
Agencies from Encrypted
Smartphones



Message from the Coordination Team

The intention of this Newsletter is to open a new communication channel in order to provide news on the project progress and to discuss ongoing topics relevant to EXFILES for internal and external project partners, stakeholders and all other interested bodies. For more detailed information about the project, we invite you to visit our project website, which is constantly updated with the latest project related news: www.exfiles.eu. The project has successfully started with a virtual kick-off meeting on 8th-9th July

2020. The event was coordinated by TECHNIKON, with the main purpose of getting to know each other and to strengthen further collaborations. Hence, part of the agenda was the introduction of all the partners involved. In addition, the work packages, including technical discussions and the planning of the next steps, took place. Since the kick-off, the consortium has been virtually meeting on a regular basis and working relentlessly toward achieving the project objectives.



The EXFILES project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 883156.

The EXFILES Consortium

The EXFILES consortium consists of fourteen partners from seven different Countries:

	Technikon Forschungs- und Planungsgesellschaft mbH, Austria
	CEA Commissariat a L'Energie Atomique et aux Energies Alternatives, France
	Ministere De L'interieur, France
	Bundeskriminalamt, Germany
	Centro Nacional de Inteligencia, Spain
	Agencia Estatal Consejo Superior de Investigaciones Cientificas, Spain
	Netherlands Forensic Institute, Netherlands
	Royal Holloway and Bedford New College, United Kingdom
	Riscure BV, Netherlands
	Texplained, France
	Université de Lille, France
	Cyber Intelligence, S.L., Spain
	Synacktiv, France [Paris]
	National Criminal Investigation service, Norway

More information about the consortium can be found on the [project website](#).

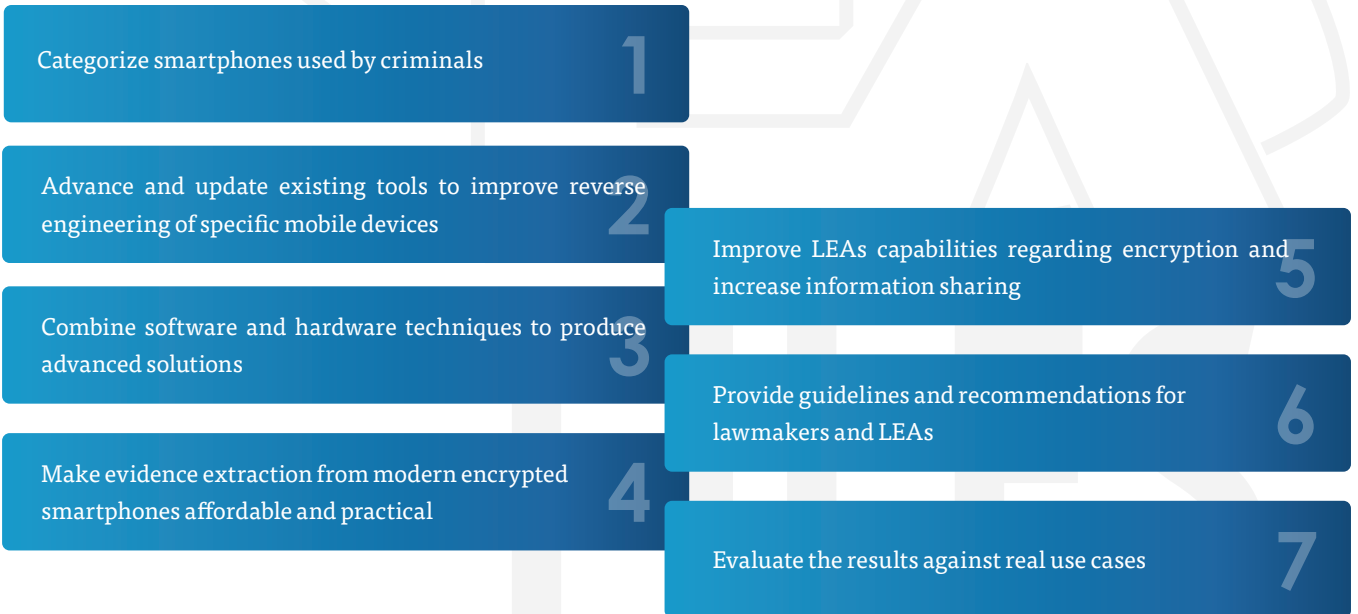
Main Project Information

Technological advances and development of sophisticated functions in mobile devices has led to new usages and dependencies. Mobile phones are often a key factor in criminal cases, intrusions, intellectual property theft, security threats, and more. The data stored in these devices may contain critical evidence associated with the above-mentioned crimes. The latest generation of devices incorporate new security features and encryption schemes to „protect“ the device and its associated user data. The problem with this occurs when rapid processing of critical evidence by various information retrieval techniques is slowed down, or even made impossible. The mobile device forensics field is a challenging area for forensic analysts particularly given the increasing number of data encryption mechanisms.

The EXFILES project aims to provide law enforcement agencies (LEAs) with new tools to extract data and associated evidence from these devices in strict legal contexts. A unique consortium of five LEAs, universities and cyber security companies from the EU have joined forces to address these challenges. Together, they defined three areas of work on technical data extraction techniques, namely software exploitation, hardware methods and combined methods. In addition, tools and methods inspired by other areas of information security (e.g. security assessments based on common criteria) will lead to new judicial methods of accessing data for lawful investigations. Another unique dimension of EXFILES is the clear focus on the ethical and legal aspects of research and exploitation as well as dissemination and training activities for the next generation of forensic experts. The main objective of EXFILES is to improve Law Enforcement Agencies' techniques and methods, to extract digital evidence from modern encrypted smartphones used by criminals based on holistic approach (both software and hardware).



EXFILES Objectives



EXFILES at a Glance

EXFILES provides mobile forensic technologies to Law Enforcement Agencies (LEAs) to enable them to effectively fight against

crime and terrorism by empowering them to extract digital evidence from modern encrypted smartphones.

EXFILES generates rich interaction between European LEAs, research teams and testing laboratories to share forensic knowledge, resulting in:

- Combining the heterogeneous expertise of the partners (hardware, software and cryptography) to create novel solutions
- Adapting usual techniques of Common Criteria cybersecurity testing laboratories to address challenges LEAs face
- Providing tools and guidelines for fast and reliable mobile forensic analysis
- Setting up a collaborative platform to share these methods for European LEAs

EU is lagging behind in mobile devices forensic technology. EXFILES develops the technology and the expertise to ensure that the European Union minimizes the dependency on external providers.

EXFILES benchmarks its innovative solutions against two forensic pilots.

EXFILES Media



Past Events



Podcast: EXFILES E01

Europe Fights Against Crime and Terrorism

We speak with the technical lead from EXFILES, Assia Tria. She joins us from CEA, a technological research organization and project partner based in France.

Listen now!



Podcast: EXFILES E02

Europe Fights Against Crime and Terrorism

We speak with the Nico from one of the world's leading forensic laboratories...the Netherlands Forensic Institute.

Listen now!

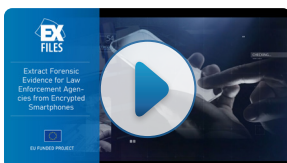


Podcast: Ethics & Technology E04

Ethics and Technology – a Prerequisite for European Research: Engineering and Technology

Today Marcel Moritz joins our ethics conversation. He manages Legal, Ethical and Societal Issues in a EU funded project which addresses complex forensic tools for law enforcement agencies.

Listen now!



Video: EXFILES

Extract Forensic Evidence for Law Enforcement Agencies from Encrypted Smartphones

Watch now!

Kickoff meeting

08th - 09th July 2020

@Virtual event

Secure Societies

“project to policy kick off seminar”

22nd - 23rd March 2021

@Virtual event

Technikon's financial webinar for H2020 projects

24th March 2021

@Virtual event

IMB-CNM Talks: Presentation of the European project EXFILES

04th June 2021

@Virtual event

All past and upcoming events can be found on the EXFILES official webpage:

exfiles.eu/events