



FOREnsic evidence gathering autonomous seNSOR

Fact Sheet

Project Information

FORENSOR

Grant agreement ID: 653355

[Project website](#)

DOI

[10.3030/653355](https://doi.org/10.3030/653355)

Project closed

EC signature date

28 April 2015

Start date

1 September 2015

End date

28 February 2019

Funded under

Secure societies - Protecting freedom and security of Europe and its citizens

Total cost

€ 4 937 833,94

EU contribution

€ 4 043 546,25

Coordinated by

ETHNIKO KENTRO EREVNAS
KAI TECHNOLOGIKIS
ANAPTYXIS



Greece

Objective

Covert evidence gathering has not seen major changes in decades. Law enforcement Agencies (LEAs) are still using conventional, manpower based techniques to gather forensic evidence. Concealed surveillance devices can provide irrefutable evidences, but current video surveillance systems are usually bulky and complicated, are often used as simple video recorders, and require complex, expensive infrastructure to supply power, bandwidth, storage and illumination. Recent years have seen significant advances in the surveillance industry, but these were rarely targeted to forensic applications. The imaging community is fixated on cameras for mobile phones, where the figures of merit are resolution, image quality,

and low profile. A mobile phone with its camera on would consume its battery in under two hours. Industrial surveillance cameras are even more power hungry, while intelligent algorithms such as face detection often require extremely high processing power, such as backend server farms, and are not available in conventional surveillance systems.

Here we propose to develop and validate a novel, ultra-low-power, intelligent, miniaturised, low-cost, wireless, autonomous sensor (“FORENSOR”) for evidence gathering. Its ultra-sensitive camera and built-in intelligence will allow it to operate at remote locations, automatically identify pre-defined criminal events, and alert LEAs in real time while providing and storing the relevant video, location and timing evidence. FORENSOR will be able to operate for up to two months with no additional infrastructure. It will be manageable remotely, preserve the availability and the integrity of the collected evidence, and comply with all legal and ethical standards, in particular those related to privacy and personal data protection. The combination of built-in intelligence with ultra-low power consumption could help LEAs take the next step in fighting severe crimes.

Fields of science (EuroSciVoc)

[natural sciences](#) > [computer and information sciences](#) > [artificial intelligence](#) > [computer vision](#) > **[facial recognition](#)**

[engineering and technology](#) > [electrical engineering, electronic engineering, information engineering](#) > [electronic engineering](#) > [sensors](#) > **[optical sensors](#)**

[social sciences](#) > [law](#) > **[law enforcement](#)**

[engineering and technology](#) > [electrical engineering, electronic engineering, information engineering](#) > [information engineering](#) > [telecommunications](#) > **[mobile phones](#)**

[medical and health sciences](#) > [other medical sciences](#) > **[forensic sciences](#)**



Keywords

[evidence gathering](#)

[ultra low power](#)

[autonomous sensor](#)

[visual sensor](#)

[safe city](#)

[video surveillance](#)

[ethics](#)

[fundamental rights](#)

[Law Enforcement Agency](#)

Programme(s)

[H2020-EU.3.7. - Secure societies - Protecting freedom and security of Europe and its citizens](#)

MAIN PROGRAMME

Topic(s)

[FCT-05-2014 - Law enforcement capabilities topic 1: Develop novel monitoring systems and miniaturised sensors that improve Law Enforcement Agencies' evidence-gathering abilities](#)

Call for proposal

[H2020-FCT-2014-2015](#) 

[See other projects for this call](#)

Sub call

H2020-FCT-2014

Funding Scheme

[IA - Innovation action](#)

Coordinator



ΕΘΝΙΚΟ ΚΕΝΤΡΟ ΕΡΕΥΝΑΣ ΚΑΙ ΤΕΧΝΟΛΟΓΙΚΗΣ ΑΝΑΠΤΥΞΗΣ

Net EU contribution

€ 626 125,00

Total cost

€ 626 125,00

Address

CHARILAOU THERMI ROAD 6 KM

57001 Themi Thessaloniki

 **Greece** 

Region

Βόρεια Ελλάδα > Κεντρική Μακεδονία > Θεσσαλονίκη

Activity type

Research Organisations

Links

- Contact the organisation Website
- Participation in EU R&I programmes
- HORIZON collaboration network

Participants (10)



SODIRA CONNECT

France

Net EU contribution

€ 420 500,00

Address

ROUTE DE FOUGERES 30
35510 Cesson Sevigne

SME

Yes

Region

Bretagne > Bretagne > Ille-et-Vilaine

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

- Contact the organisation Website
- Participation in EU R&I programmes
- HORIZON collaboration network

Total cost

€ 600 714,29



STMICROELECTRONICS SRL

Italy

Net EU contribution

€ 536 900,00

Address

VIA C.OLIVETTI 2
20864 Agrate Brianza 

Region

Nord-Ovest > Lombardia > Monza e della Brianza

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost

€ 767 000,00



FONDAZIONE BRUNO KESSLER

 Italy

Net EU contribution

€ 709 500,00

Address

VIA SANTA CROCE 77
38122 Trento 

Region

Nord-Est > Provincia Autonoma di Trento > Trento

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost

€ 709 500,00



EMZA VISUAL SENSE LTD

 Israel

Net EU contribution

€ 355 225,00

Address

4 ARIEL SHARON ST

5320047 Givatayim 

SME 

Yes

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 507 464,29



SYNELIXIS LYSEIS PLIROFORIKIS AUTOMATISMOU & TILEPIKOINONION ANONIMI ETAIRIA

 Greece

Net EU contribution

€ 273 000,00

Address

FARMAKIDOU 10

34100 Chalkida 

SME 

Yes

Region

Κεντρική Ελλάδα > Στερεά Ελλάδα > Εύβοια

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 390 000,00



VRIJE UNIVERSITEIT BRUSSEL

 Belgium

Net EU contribution

€ 297 687,50

Address

PLEINLAAN 2

1050 Bruxelles / Brussel 

Region

Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest > Région de Bruxelles-Capitale/ Brussels Hoofdstedelijk Gewest > Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 297 687,50



ALMAVIVA THE ITALIAN INNOVATION COMPANY SPA

 Italy

Net EU contribution

€ 331 216,25

Address

VIA DI CASAL BOCCONE 188 190

00137 ROMA 

Region

Centro (IT) > Lazio > Roma

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

Total cost
€ 473 166,07



VISIONWARE-SISTEMAS DE INFORMACAO SA

 Portugal
Net EU contribution
€ 169 830,00

Address
RUA DA LIONESA 446 - CENTRO EMPRESARIAL DA LIONESA
4465 671 PORTO LECA DO BALIO 

SME 
Yes

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost
€ 242 614,29



AYUNTAMIENTO DE VALENCIA

 Spain
Net EU contribution
€ 220 812,50

Address
PLAZA AYUNTAMIENTO 1
46002 Valencia 

Region
Este > Comunitat Valenciana > Valencia/València

Activity type
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 220 812,50



Ministerio da Justica

 Portugal

Net EU contribution

€ 102 750,00

Address

Praça do Comércio s/n

1149-019 Lisboa 

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 102 750,00

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Permalink: <https://cordis.europa.eu/project/id/653355>

European Union, 2025