

Parcel and Letter Security for Postal and Express Courier Flows

Fact Sheet

Project Information

PARSEC

Grant agreement ID: 101073963

DOI

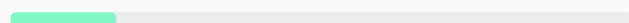
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Start date

1 October 2022

End date

30 September 2025



Funded under

Civil Security for Society

Total cost

€ 3 185 442,25

EU contribution

€ 3 185 442,25

Coordinated by

CBRA SERVICES



Belgium

Project description

Protecting EU postal and express courier flows

Being able to detect threats and illicit goods in postal and express courier flows is vital to the security of the EU. However, this area faces key challenges such as the lack of technology capable of screening volumes of goods efficiently. The EU-funded PARSEC project will develop and test three next-generation non-intrusive detection technologies – a multi-energy photon counting detector, neutron-induced gamma-ray spectroscopy, and X-ray diffraction – and combine them into a detection architecture for detection accuracy, speed, and reliability. This will help stop the abuse of postal and express courier flows for criminal and terrorist purposes.

Objective

PARSEC is a project about parcel and letter security in the context of postal and express courier services. The project delivers an ambitious set of solutions by developing, configuring, customising, and piloting innovative tools, services and security management views to fight the abuse of postal and express courier flows for criminal and terrorist purposes. The four PARSEC innovation areas and three use cases strengthen risk analysis and redefine threat detection and resilience capabilities of parcel service providers, customs authorities, police agencies, and other relevant stakeholders. PARSEC develops and tests three next-generation non-intrusive detection technologies (multi-energy photon counting detector, neutron-induced gamma-ray spectroscopy, and X-ray diffraction) and combine them into a detection architecture (= system-of-system) for optimal detection accuracy, speed and reliability. With PARSEC solutions postal and express operators, customs, and police authorities will be more capable to fight crime and terrorism, put in place a stronger deterrent, and to ensure safe and uninterrupted postal and express services.

Fields of science

[social sciences](#) › [political sciences](#) › [political transitions](#) › **[terrorism](#)**

[natural sciences](#) › [physical sciences](#) › [theoretical physics](#) › [particle physics](#) › **[photons](#)**

[natural sciences](#) › [physical sciences](#) › [optics](#) › **[spectroscopy](#)**

Programme(s)

[HORIZON.2.3 - Civil Security for Society](#)

MAIN PROGRAMME

[HORIZON.2.3.2 - Protection and Security](#)

Topic(s)

[HORIZON-CL3-2021-BM-01-04 - Advanced detection of threats and illicit goods in postal and express courier flows](#)

Call for proposal

[HORIZON-CL3-2021-BM-01](#)

[See other projects for this call](#)

Funding Scheme

[RIA - Research and Innovation action](#)

Coordinator



CBRA SERVICES

Net EU contribution

€ 884 223,75

Address

Krinkelweg 1

8211 Zedelgem

 Belgium 

Region

Vlaams Gewest > Prov. West-Vlaanderen > Arr. Brugge

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](#) 

Other funding

€ 0,00

Participants (14)



MINISTERIE VAN FINANCIEN

 Netherlands

Net EU contribution

€ 133 000,00

Address

Korte Voorhout 7

2511CW S-gravenhage 

Region

West-Nederland > Zuid-Holland > Agglomeratie 's-Gravenhage

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](#)

Other funding
€ 0,00



TWI ELLAS ASTIKI MI KerdoskopiKI EtAireia

Greece

Net EU contribution
€ 429 018,50

Address
L Kifsias 280
15232 Chalandri

Region
Βόρειος Τομέας Αθηνών > Αττική > Αττική

Activity type
Research Organisations

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

Other funding
€ 0,00



DIRECT CONVERSION AB

Sweden

Net EU contribution
€ 520 225,00

Address
Svardvagen 23
182 33 Danderyd

Region
Östra Sverige > Stockholm > Stockholms län

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](#) 

Other funding

€ 0,00



UNIVERSITA CATTOLICA DEL SACRO CUORE

 Italy

Net EU contribution

€ 192 460,00

Address

Largo Gemelli 1
20123 Milano 

Region

Nord-Ovest > Lombardia > Milano

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Other funding

€ 0,00



TRANSPORTED ASSET PROTECTION ASSOCIATION EUROPE MIDDLE EAST AND AFRIKA

 Netherlands

Net EU contribution

€ 82 250,00

Address

Pastoor Ohlleen 39
3451 CB Vleuten 

Region

West-Nederland > Utrecht > Utrecht

Activity type

Other

Links

[Contact the organisation](#)

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

[HORIZON collaboration network](#)

Other funding

€ 0,00



DYNAXION B.V.

Netherlands

Net EU contribution

€ 321 262,50

Address

High Tech Campus 12
5656AE Eindhoven

Region

Noord-Brabant > Zuidoost-Noord-Brabant

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](#)

Other funding

€ 0,00



Netherlands Police

Netherlands

Net EU contribution

€ 28 500,00

Address

Nieuwe Uitleg 1
2595 CC The Hague

Region

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

Other funding

€ 0,00



KONINKLIJKE POSTNL BV

Netherlands

Net EU contribution

€ 69 058,75

Address

Waldorpstraat 3
2521 CA S Gravenhage

Region

West-Nederland > Zuid-Holland > Agglomeratie 's-Gravenhage

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

Other funding

€ 0,00



BPOST

Belgium

Net EU contribution

€ 87 250,00

Address

Muntcentrum

1000 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

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

Links

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

Other funding

€ 0,00



POLICE FEDERALE BELGE

 Belgium

Net EU contribution

€ 50 000,00

Address

Kroonlaan 145a
1050 Brussels 

Region

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

Activity type

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

Links

- Contact the organisation 
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- HORIZON collaboration network 

Other funding

€ 0,00



POSTE ITALIANE - SOCIETA PER AZIONI

POSTE ITALIANE - SOCIETÀ PER AZIONI

 Italy

Net EU contribution

€ 59 625,00

Address

Viale Europa 190

00144 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](#) 

[HORIZON collaboration network](#) 

Other funding

€ 0,00



TECHNISCHE UNIVERSITEIT DELFT

 Netherlands

Net EU contribution

€ 106 543,75

Address

Stevinweg 1

2628 CN Delft 

Region

West-Nederland > Zuid-Holland > Delft en Westland

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Other funding

€ 0,00



NEMZETI ADO- ES VAMHIVATAL

 Hungary

Net EU contribution

€ 33 437,50

Address

Szechenyi U. 2

1054 Budapest 

Region

Közép-Magyarország > Budapest > Budapest

Activity type

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

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Other funding

€ 0,00



SERVICE PUBLIC FEDERAL FINANCES

 Belgium

Net EU contribution

€ 188 587,50

Address

Koning Albert II-laan 33

1030 Bruxelles 

Region

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

Activity type

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

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Other funding

€ 0,00

Partners (4)



CROSS-BORDER RESEARCH ASSOCIATION

 Switzerland

Net EU contribution

€ 0,00

Address

Chemin De La Cure 9,bmt Fiduciaire Sarl
1066 Echandens 

Region

Schweiz/Suisse/Svizzera > Région lémanique > Vaud

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Other funding

€ 0,00



UNIVERSITE DE LAUSANNE

 Switzerland

Net EU contribution

€ 0,00

Address

Quartier Unil-centre Bâtiment Unicentre
1015 Lausanne 

Region

Schweiz/Suisse/Svizzera > Région lémanique > Vaud

Activity type

Higher or Secondary Education Establishments

Links

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

Other funding

€ 0,00



HOME OFFICE

United Kingdom
Net EU contribution
€ 0,00

Address

2 Marsham Street
SW1P 4DF London

Region

London > Inner London — West > Westminster

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

Other funding

No data



HALO X RAY TECHNOLOGIES LIMITED

United Kingdom
Net EU contribution
€ 0,00

Address

Unit 2 Castle Park Queens Drive
NG11 8NS Nottingham

SME

Yes

Region

East Midlands (England) > Derbyshire and Nottinghamshire > Nottingham

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](#) 

Other funding

No data

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