

HORIZON
2020

IOT- & Blockchain-Enabled Security Framework for New Generation Critical Cyber-Physical Systems In Finance Sector

Fact Sheet

Project Information

CRITICAL-CHAINS

Grant agreement ID: 833326

[Project website](#) 

DOI

[10.3030/833326](https://doi.org/10.3030/833326) 

Project closed

EC signature date

29 April 2019

Start date

1 July 2019

End date

30 September 2022

Funded under

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

Total cost

€ 4 985 547,50

EU contribution

€ 4 182 154,25

Coordinated by

THE UNIVERSITY OF READING

 United Kingdom

Project description

Innovative security model for e-banking, e-finance and e-insurance

Cyber-physical systems refer to systems requiring interaction between computers, communication channels and physical devices. These are used in numerous transactions including banking processes, insurance infrastructures, financial

procedures and others. Designed to make things easier, they also face many threats. The EU-funded CRITICAL-CHAINS project aims to offer a triangular accountability solution bringing a novel integrated security model and framework to effectively support privacy and protect from illegal transactions, money trafficking and internet fraud. Fast and client-friendly, thanks to innovative cloud-based “X-as-a Service”, it will be tested for social, ethical, legal and reliability values and validated for banking, insurance and financial markets.

Fields of science (EuroSciVoc)

[natural sciences](#) > [computer and information sciences](#) > [internet](#) > [internet of things](#)

[natural sciences](#) > [computer and information sciences](#) > [computer security](#) > [cryptography](#)



Keywords

[Blockchain](#)

[IOT](#)

[Embedded Systems Security](#)

[Workflow Modelling](#)

[Biometric Engineering](#)

[Privacy & Accountability by Design](#)

Programme(s)

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

MAIN PROGRAMME

[H2020-EU.3.7.6. - Ensure privacy and freedom, including in the Internet and enhance the societal, legal and ethical understanding of all areas of security, risk and management](#)

[H2020-EU.3.7.4. - Improve cyber security](#)

Topic(s)

[SU-DS05-2018-2019 - Digital security, privacy, data protection and accountability in critical sectors](#)

Call for proposal

[H2020-SU-DS-2018-2019-2020](#)

[See other projects for this call](#)

Sub call

H2020-SU-DS-2018

Funding Scheme

[IA - Innovation action](#)

Coordinator



THE UNIVERSITY OF READING

Net EU contribution

€ 696 625,00

Total cost

€ 696 625,00

Address

WHITEKNIGHTS CAMPUS WHITEKNIGHTS HOUSE

RG6 6AH Reading

 United Kingdom 

Region

South East (England) > Berkshire, Buckinghamshire and Oxfordshire > Berkshire

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Participants (12)



COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES

 France

Net EU contribution

€ 372 445,00

Address

RUE LEBLANC 25

75015 PARIS 15 

Region

Ile-de-France > Ile-de-France > Paris

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 372 445,00



ERGUNLER INSAAT PETROL URUNLERI OTOMOTIV TEKSTIL MADENCILIK SU
URUNLER SANAYI VE TICARET LIMITED STI.

 Türkiye

Net EU contribution

€ 332 106,25

Address

PIRIMEHMET MH.113 CAD NO.75

32100 Isparta 

SME 

Yes

Region

Akdeniz > Antalya > Isparta

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

€ 474 437,50



EY ADVISORY SPA

 Italy

Net EU contribution

€ 415 625,00

Address

VIA MERAVIDGLI 14

20123 Milano 

Region

Nord-Ovest > Lombardia > Milano

Activity type

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

Links

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

[HORIZON collaboration network](#) 

Total cost

€ 593 750,00



FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV

 Germany

Net EU contribution

€ 503 500,00

Address

HANSASTRASSE 27C

80686 Munchen 

Region

Bayern > Oberbayern > München, Kreisfreie Stadt

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost
€ 503 500,00



GUARDTIME OU

 Estonia

Net EU contribution

€ 234 396,75

Address

A H TAMMSAARE TEE 60 KRISTIINE DISTRICT
11316 Tallinn 

SME 

Yes

Region

Eesti > Eesti > Põhja-Eesti

Activity type

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

Links

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

[HORIZON collaboration network](#) 

Total cost

€ 334 852,50



STICHTING IMEC NEDERLAND

 Netherlands

Net EU contribution

€ 281 250,00

Address

HIGH TECH CAMPUS 31
5656 AE Eindhoven 

Region

Zuid-Nederland > Noord-Brabant > Zuidoost-Noord-Brabant

Activity type

Research Organisations

Links

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

Total cost

€ 281 250,00



INDRA SISTEMAS SA

Spain

Net EU contribution

€ 139 125,00

Address

AVENIDA DE BRUSELAS 35
28108 Alcobendas Madrid

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

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

€ 317 500,00

THIRD-PARTY

INDRA FACTORIA TECNOLOGICA SL

Spain

Net EU contribution

€ 83 125,00

Address

AVENIDA DE BRUSELAS 35
28108 Alcobendas

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

Activity type

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

Links

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Total cost

€ 118 750,00



JOANNEUM RESEARCH FORSCHUNGSGESELLSCHAFT MBH

Austria

Net EU contribution

€ 453 750,00

Address

LEONHARDSTRASSE 59
8010 Graz

Region

Südösterreich > Steiermark > Graz

Activity type

Research Organisations

Links

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

Total cost

€ 453 750,00



NETAS TELEKOMUNIKASYON ANONIM SIRKETI

Türkiye

Net EU contribution

€ 223 956,25

Address

YENISEHIR MAH. OSMANLI BULVARI NO:1 ESAS AEROPARK BINASI KURTKOY PENDIK
34912 Istanbul

Region

Istanbul > İstanbul > İstanbul

Activity type

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

Links

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- [HORIZON collaboration network](#)

Total cost

€ 319 937,50



POSTE ITALIANE - SOCIETA PER AZIONI

Italy

Net EU contribution

€ 249 375,00

Address

VIALE EUROPA 190
00144 Roma



Region

Centro (IT) > Lazio > Roma

Activity type

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

Links

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- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

€ 356 250,00



RINA CONSULTING SPA

Italy

Net EU contribution

€ 196 875,00

Address

VIA CECCHI 6

16129 Genova



Region

Nord-Ovest > Liguria > Genova

Activity type

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

Links

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Total cost

€ 281 250,00

Last update: 11 December 2023

Permalink: <https://cordis.europa.eu/project/id/833326>

European Union, 2025