Confidential Computing and Privacy-preserving Technologies for 6G

Fact Sheet

Project Information

CONFIDENTIAL6G
Grant agreement ID: 101096435

DOI
10.3030/101096435

EC signature date
17 November 2022

Funded under
Digital, Industry and Space

Start date
1 January 2023
End date
31 December 2025

Total cost
€ 5 263 864,50

EU contribution
€ 4 999 153,00

Coordinated by
WINGS ICT SOLUTIONS TECHNOLOGIES PLIROFORIKIS KAI EPIKOINONION ANONYMI ETAIREIA
Greece

Project description

Researching and developing security solutions for 6G

As the successor to 5G cellular technology, the sixth-generation mobile system needs to provide stability and trustworthiness across a connected continuum of heterogeneous environments globally. Based on a combination of IT systems and networks, this will satisfy scenarios for future digital services. Unfortunately, this heterogeneity among networks creates security and privacy risks that, if not addressed, could create many issues. Yet, current security options lack optimisation for protecting large numbers of connected high-mobility heterogeneous devices. The EU-funded CONFIDENTIAL6G project will address this challenge by researching
several useful technologies for data privacy and security, including but not limited to AI and post-quantum cryptography, followed by the development of promising security solutions.

### Fields of science

- natural sciences > computer and information sciences > internet > internet of things
- natural sciences > computer and information sciences > computer security > access control
- natural sciences > computer and information sciences > computer security > cryptography

### Keywords

- 6G
- Confidential Computing
- Homomorphic encryption
- Cryptography
- Collaborative and Federated AI
- ML
- Blockchain
- Smart Contracts
- Confidential Orchestration

### Programme(s)

- HORIZON.2.4 - Digital, Industry and Space

### Topic(s)

- HORIZON-JU-SNS-2022-STREAM-B-01-04 - Secure Service development and Smart Security

### Call for proposal

- HORIZON-JU-SNS-2022

See other projects for this call

### Funding Scheme

- HORIZON-JU-RIA - HORIZON JU Research and Innovation Actions
Coordinator

WINGS ICT SOLUTIONS TECHNOLOGIES PLIROFORIKIS KAI EPIKJOINION ANONYMI ETAIREIA

Net EU contribution
€ 406 125,00

Address
189, syggrou avenue
171 21 Nea smyrni
Greece

SME
Yes

Region
Αττική > Αττική > Νότιος Τομέας Αθηνών

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
€ 45 125,00

Participants (12)

NOKIA NETWORKS FRANCE

Net EU contribution
€ 405 000,00

Address
Site nokia paris saclay 12 rue jean bart
91300 Massy

Region
Ile-de-France > Ile-de-France > Essonne

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

Other funding

€ 45 000,00

NOKIA SOLUTIONS AND NETWORKS GMBH &CO KG

Germany

Net EU contribution

€ 431 651,25

Address

Werinherstrasse 91
81541 Munchen

Region

Bayern > Oberbayern > München, Kreisfreie Stadt

Activity type

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

Other funding

€ 47 961,25

TELEFONICA INVESTIGACION Y DESARROLLO SA

Spain

Net EU contribution

€ 382 496,00

Address

Ronda de la comunicacion s/n distrito c edificio oeste i
28050 Madrid

Region
Activity type

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

Other funding

€ 42 500,25

TECHNISCHE UNIVERSITEIT EINDHOVEN

Netherlands

Net EU contribution

€ 383 272,50

Address

Groene loper 3
5612 AE Eindhoven

Region

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

Activity type

Higher or Secondary Education Establishments

Other funding

€ 0,00

ULTRAVIOLET CONSULT DOO

Serbia

Net EU contribution

€ 378 000,00

Address
PRIVREDNO DRUSTVO ZENTRIX LAB DRUSTVO SA OGRANICENOM ODGOVORNOSCU PANCEVO

Serbia

Net EU contribution

€ 379,125,00

Address

Milosa trebijnca 10
26000 Pancevo

SME
Yes

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

Other funding

€ 42,125,00
TEKNOLOGIAN TUTKIMUSKESKUS VTT OY
Finland
Net EU contribution
€ 426 291.25
Address
Tekniikantie 21
02150 Espoo
Region
Manner-Suomi > Helsinki-Uusimaa > Helsinki-Uusimaa
Activity type
Research Organisations
Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network
Other funding
€ 0.00

NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO
Netherlands
Net EU contribution
€ 391 364.00
Address
Anna van buerenplein 1
2595 DA Den haag
Region
West-Nederland > Zuid-Holland > Agglomeratie 's-Gravenhage
Activity type
Research Organisations
Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network
Other funding
€ 0.00
FUNDACION IMDEA SOFTWARE
Spain
Net EU contribution
€ 365 015,00
Address
Campus de montegancedo sn
28223 Pozuelo de alarcon
Region
Comunidad de Madrid
Activity type
Research Organisations
Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network
Other funding
€ 0,00

TECHNISCHE UNIVERSITAET GRAZ
Austria
Net EU contribution
€ 384 375,00
Address
Rechbauerstrasse 12
8010 Graz
Region
Südösterreich
Activity type
Higher or Secondary Education Establishments
Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network
UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN

Ireland

Net EU contribution
€ 383,938,00

Address
Belfield
4 Dublin

Region
Ireland > Eastern and Midland > Dublin

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

FRIEDRICH-ALEXANDER-UNIVERSITAET ERLANGEN-NUERNBERG

Germany

Net EU contribution
€ 282,500,00

Address
Schlossplatz 4
91054 Erlangen

Region
Bayern > Mittelfranken > Erlangen, Kreisfreie Stadt

Activity type
Higher or Secondary Education Establishments

Links