An Artificial Intelligent Aided Unified Network for Secure Beyond 5G Long Term Evolution

Fact Sheet

Project Information

**NANCY**
Grant agreement ID: 101096456

**Funded under**
Digital, Industry and Space

**Total cost**
€ 6 447 428,75

**EU contribution**
€ 5 999 798,00

**EC signature date**
21 November 2022

**Coordination by**
PANEPISTIMIO DYTIKIS MAKEDONIAS

**Start date**
1 January 2023

**End date**
31 December 2025

**Greece**

Project description

AI and blockchain to play big role in Beyond 5G networks

So much has changed since the first generation of wireless cellular technology that was introduced back in the 1980s. Today, 5G is here and promising superfast capabilities for thousands of machines to ‘talk’ to each other at the same time. Beyond 5G is the next step. However, the transition to Beyond 5G poses a security risk with few solutions. The EU-funded NANCY project aims to change this by developing a revolutionary, safe and intelligent architecture for improved security and efficiency in Beyond 5G wireless networks. The architecture will use AI and blockchain technologies to boost safety, improve data management technologies,
and develop new solutions for increased efficiency, communication, and resource allocation and management.

**Fields of science**

- engineering and technology
- electrical engineering
- electronic engineering
- information engineering
- information engineering
- telecommunications
- telecommunications networks
- mobile network
- 5G

- natural sciences
- computer and information sciences
- computer security
- cryptography

**Keywords**

- Dynamic Resource Management
- AI-based B-RAN Orchestration
- Trustworthy Cooperative Access Mechanisms
- Quantum Key Distribution Mechanisms

**Programme(s)**

- HORIZON.2.4 - Digital, Industry and Space

**Topic(s)**


**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**
PANEPISTIMIO DYTIKIS MAKEDONIAS

Net EU contribution
€ 226 562,50

Address
Parko agiou dimitriou 1
501 00 Kozani
Greece

Region
Βόρεια Ελλάδα > Δυτική Μακεδονία > Γρεβενά

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

Participants (21)

GIOUMPITEK MELETI SCHEDIASMOS YLOPOIISI KAI POLISI ERGON PLIROFORIKIS ETAIREIA PERIORISMEMENIS EFTHYNIS

Greece

Net EU contribution
€ 317 250,00

Address
Mithridatou 36-38
11632 Athina

SME
Yes

Region
Αττική > Κεντρικός Τομέας Αθηνών

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
FUNDACION TECNALIA RESEARCH & INNOVATION
Spain
Net EU contribution
€ 301,141,00
Address
Parque científico y tecnológico de gipuzkoa, paseo mikelétegi 2
20009 Donostia-san sebastian (gipuzkoa)
Region
Noreste > País Vasco > Gipuzkoa
Activity type
Research Organisations
Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network
Other funding
€ 0,25

NEC LABORATORIES EUROPE GMBH
Germany
Net EU contribution
€ 408,521,00
Address
Kurfürsten-anlage 36
69115 Heidelberg
Region
Baden-Württemberg > Karlsruhe > Heidelberg, Stadtkreis
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
€ 45 391,50

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FUNDACIO PRIVADA I2CAT, INTERNET I INNOVACIO DIGITAL A CATALUNYA

Spain
Net EU contribution
€ 204 875,00

Address
Calle gran capita 2-4, edifici nexus i
08034 Barcelona

Region
Este > Cataluña > Barcelona

Activity type
Research Organisations

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

Other funding
€ 0,00

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ITALTEL SPA

Italy
Net EU contribution
€ 298 125,00

Address
Viale luigi schiavonetti 270/f
00173 Roma
NETCOMPANY-INTRASOFT SA

Luxembourg

Net EU contribution
€ 276 750,00

Address
Rue nicolas bove 2b
1253 Luxembourg

Region
Luxembourg > Luxembourg > Luxembourg

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
€ 30 750,00

EIGHT BELLS LTD

Cyprus

Net EU contribution
€ 230 062,50

Address
Armenias 35 strovolos
2003 Nicosia

SME
Yes

Region
Κύπρος > Κύπρος > Κύπρος

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
€ 25 562,50

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THALES DIS FRANCE SAS
France

Net EU contribution
€ 395 887,50

Address
6 rue de la verrerie
92190 Meudon

Region
Ile-de-France > Ile-de-France > Hauts-de-Seine

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
€ 43 987,50

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DRAXIS ENVIRONMENTAL SA

7 of 15
Greece

Net EU contribution

€ 175 500,00

Address

Themistokli sofoulis str 54-56
54655 Thessaloniki

SME

Yes

Region

Βόρεια Ελλάδα > Κεντρική Μακεδονία > Θεσσαλονίκη

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

€ 19 500,00

ORGANISMOS TILEPIKOINONION TIS ELLADOS OTE AE

Greece

Net EU contribution

€ 302 400,00

Address

Kifisia 99
151 24 Maroussi

Region

Αττική > Αττική > Βόρειος Τομέας Αθηνών

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
VIRTUAL OPEN SYSTEMS

France

Net EU contribution
€ 310 500,00

Address
17 rue lakanal
38000 Grenoble

SME
Yes

Region
Auvergne-Rhône-Alpes > Rhône-Alpes > Isère

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
€ 34 500,00

INSTITUT JOZEF STEFAN

Slovenia

Net EU contribution
€ 306 375,00

Address
Jamova 39
1000 Ljubljana

Region
Slovenija > Zahodna Slovenija > Osrednjeslovenska

Activity type
CONSORZIO PER LA RICERCA NELL’ AUTOMATICA E NELLE TELECOMUNICAZIONI C.R.A.T.

Italy

Net EU contribution
€ 243,000,00

Address
Via giovanni nicotera 29
00195 Roma

Region
Centro (IT) > Lazio > Roma

Activity type
Research Organisations

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

Other funding
€ 0,00

ERICSSON TELECOMUNICAZIONI SPA

Italy

Net EU contribution
€ 263,981,00

Address
Via anagnina 203
00118 Roma
Region
Centro (IT) > Lazio > Roma

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
€ 29 331,50

BI2S-BUSINESS AND IOT INTEGRATED SOLUTIONS LTD

Cyprus
Net EU contribution
€ 156 937,00

Address
Kypranoros 13 evi building 2nd floor office 201
1061 Nicosia

SME
Yes

Region
Κύπρος > Κύπρος > Κύπρος

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
€ 17 438,00

INNOCUBE I.K.E.

Greece
Net EU contribution
€ 365 625,00
Address
Isidorou 18
54351 Thessaloniki
SME Yes
Region
Βόρεια Ελλάδα > Κεντρική Μακεδονία > Θεσσαλονίκη
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
€ 40 625,00

ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS
Greece
Net EU contribution
€ 155 625,00
Address
Charilaou thermi road 6 km
57001 Thermi Thessaloniki
Region
Βόρεια Ελλάδα > Κεντρική Μακεδονία > Θεσσαλονίκη
Activity type
Research Organisations
Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network
Other funding
€ 0,00
SIDROCO HOLDINGS LIMITED

Cyprus

Net EU contribution

€ 302 681,00

Address

Petraki giallourou 22
1077 Nicosia

SME

Yes

Region

Κύπρος > Κύπρος > Κύπρος

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

€ 33 631,50

UNIVERSIDAD DE MURCIA

Spain

Net EU contribution

€ 298 562,50

Address

Avenida teniente flomesta s/n - edificio convalecencia
30003 Murcia

Region

Sur > Región de Murcia > Murcia

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

SCUOLA SUPERIORE DI STUDI UNIVERSITARI E DI PERFEZIONAMENTO SANNA

Italy

Net EU contribution
€ 235 000,00

Address
Piazza martiri della liberta 33
56127 Pisa

Region
Centro (IT) > Toscana > Pisa

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

METAMIND INNOVATIONS IKE

Greece

Net EU contribution
€ 224 437,00

Address
Kila administration building of university of western macedonia
501 00 Kozani

SME
Yes

Region
Βόρεια Ελλάδα > Δυτική Μακεδονία > Γρεβενά
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
€ 24 938,00

Last update: 10 March 2023

Permalink: https://cordis.europa.eu/project/id/101096456

European Union, 2023